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Thriving, Robust Equity, and Transformative Learning & Development

A More Powerful Conceptualization of the Contributors to Youth Success

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Contents

2	A Timely Formula for Linking the Concepts
5	What We Know About Thriving, Equity, and Learning and Development
9	Key Findings from the Science of Learning and Development (SoLD) Research Syntheses
10	A Deep Dive into Individual and Collective Thriving
17	Aligned Conceptualizations: Thriving, Robust Equity and Transformative Learning & Development
21	Beyond Business as Usual

This paper draws from and elaborates upon the 2019 white paper, “The Intersection Between Human Learning and Thriving and Equity,” prepared by David Osher and Michelle Boyd for the Spencer Foundation.

About the Readiness Projects

With an unwavering focus on youth potential, the Readiness Projects advance work informed by science and grounded in practice, supporting adults in all settings and systems across the diverse youth fields.

The Forum for Youth Investment, the National Urban League, and the American Institutes for Research have united to devote our time, resources, and perspectives to stimulate equity-driven solutions and policies.

With partners, we will accelerate work that demands equitable learning and development opportunities and builds on the strengths of people working at all levels to help children, youth, and young adults thrive.



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Introduction

The potential for thriving is universal, but so to is the existence of adversity. Young people can overcome adversities, but the ease of doing so is not equally shared. Opportunity structures – in schools, communities, and society – make it easier for some youth to avoid or buffer the impacts of adversity than others. Our paper speaks to the needs of all youth, as every youth can benefit from robust approaches to thriving, equity, and learning. The cumulative impacts of inequity and trauma, however, propel us to particularly call out the need to improve opportunity structures to address and eliminate the disadvantages created by current systems and practices. We also call out the need to eliminate the root causes of structural inequality in opportunities for youth to thrive across all domains.

Developing more powerful conceptualizations of thriving, equity, and learning and development, and considering them together, enriches our understanding of each. In doing so we can leverage recent syntheses of the science of adolescence, the science of learning and development, and the impacts of institutionalized inequities to emphasize the fact that children and adolescents can realize their potential and thrive. Young people can thrive even in the face of current and past adversities if they have steady exposure to contexts and relationships that are designed to provide safety, support, and challenge. The convergent science findings on developmental potential and on how, when, where, and with whom learning and development happen challenge traditional thinking in the education field about thriving, equity, and learning.¹

The terms “thriving,” “equity,” and “learning and development” (linked together) are frequently found in the same sentence, especially when the topic is education. The relationship between the terms, however, is not always clear. Thriving, equity, learning, and development are connected to different goals and, by association, different systems: thriving with health; equity with racial justice and economics; learning with education; and development with developmental science. *More complete, nuanced and scientifically grounded definitions can highlight the dynamic interrelationships among thriving, equity, and learning and development in ways that should inform policies and practices.*

The primary purpose of this paper is to present the research base to support this concept. In the sections that follow, we:

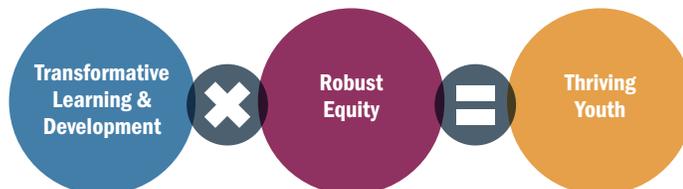
- ▶ **Introduce a formula and a rationale for addressing thriving, equity, and learning and development together that helps us better focus on actionable social factors;**
- ▶ **Summarize prevailing definitions of thriving, equity, and learning and development (and related terms);**
- ▶ **Take a deeper dive into the dimensions that contribute to individual and collective thriving;**
- ▶ **Offer powerful and aligned conceptualizations of thriving, equity, and learning and development;**
- ▶ **Describe the opportunities and conditions required to ensure that efforts to create “equitable educational outcomes” or “equitable learning and development opportunities” are as powerful and inclusive as possible.**

The science of learning and development presents many powerful lessons that can transform education systems, advance equity, and can help every young person thrive.

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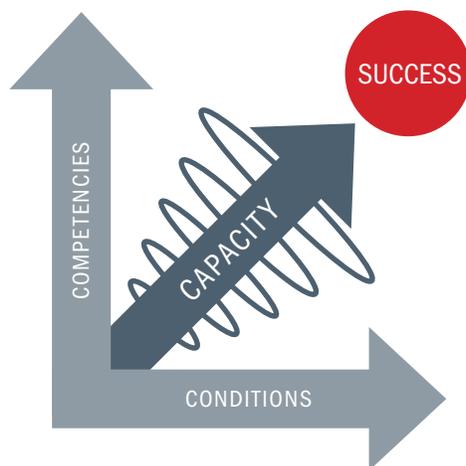
A Timely Formula for Linking the Concepts

Thriving, equity, and learning and development should be linked in our thinking and practice. Although they are often treated separately, they are dynamically related in practice and in outcomes. Addressing them together enriches our understanding of each and helps us address the social factors that support or constrain thriving. Thriving, equity, and learning and development can be examined and addressed at an individual, collective (or group), community, and system level. More complete and nuanced explorations of each concept validate these connections. When fully defined, each concept stretches the others and reinforces the fact that an integrated approach is significantly more powerful than the sum of the parts.



One way to grasp the connections is to consider how the interplay between individual *competencies* and supportive *conditions* affect young people's behaviors and, equally important, our predictions of their *capacity* to thrive. Capacity is more than a skill or competence. It is produced by the combination of (1) technical and social and emotional competence and (2) supportive proximate and societal conditions.

A young person's success is linked to their capacity to thrive – to feel, be, and be seen as competent in multiple life domains – and is a product of their opportunities to develop individual competencies and experience supportive conditions. Adults can support young people to succeed and thrive through life by helping them develop their individual competencies, and also by providing supportive conditions while also working with them and their families to address historical and institutional barriers.



The relationship between competencies, conditions, and capacity, however, is not a simple additive one. It is dynamically interactive. A young person's willingness to demonstrate a competency, for example, is dependent upon their assessment of the environment. That assessment, however, can be influenced by immediate or recurring past experiences. At the same time, a young person who successfully navigates a hostile environment or adverse experience is likely to feel better equipped to navigate future experiences.

In part, it is the recognition of the powerful and dynamic interplay that these factors have on youth success that is driving research, practice, and policy changes focused on creating equitable learning environments. This press for change is squarely

focused on schools since state and local education districts have formal accountability for academic learning. The opportunity to create equitable learning environments, however, extends well beyond schools and includes an array of public (e.g., libraries, museums), non-profit, faith based, and civic organizations that support young people's learning and development.

COVID-19 and the murder of George Floyd and many others have thrust the country into long-overdue debates about how (not whether) to dismantle systemic and institutional inequities that are literally taking the lives of Black Americans and other people of color. Systemic changes are needed in every system – not just law enforcement and education. Fundamental changes in beliefs and mindsets are needed in every adult – not just police officers and teachers. Educational equity, however, cannot be achieved without a focus on racial equity.

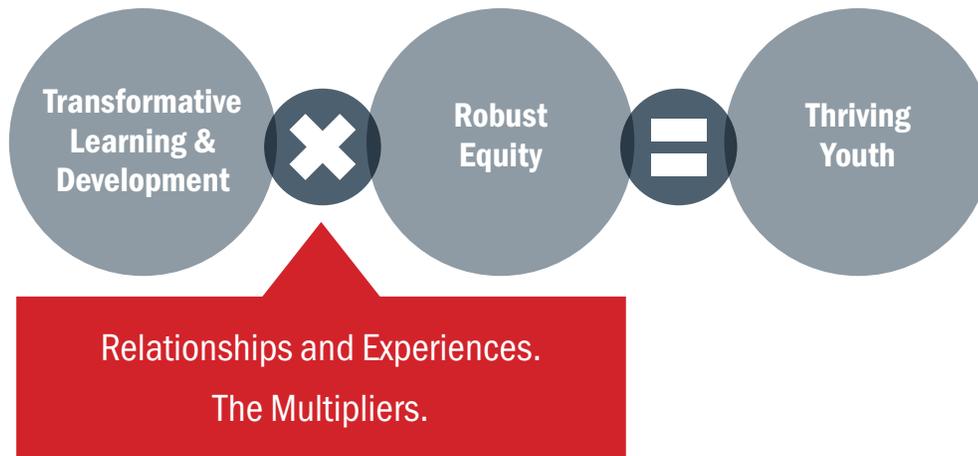
A commitment to aggressively expand access to equitable learning environments is a targeted and effective way to accelerate individual and collective thriving of all young people by focusing explicitly on creating opportunities and conditions that support the learning and development of our most marginalized young people. In both school and community settings, this commitment must focus on thriving, optimize transformative learning, enhance development, and address multiple determinant of inequity.

The first step towards activating this commitment is agreement on definitions of thriving, equity, and learning and development that are clear and actionable, research-based, and change-focused. In the sections that follow, we make the case for the adoption of definitions that:

Push Beyond...	Towards...
<p>Well-being as a set of goals and social indicators that span multiple domains including physical, economic, emotional, and social well-being.</p>	<p>Thriving as a dynamic process that goes beyond well-being to include individual and collective growth in grounding and agency.</p>
<p>Equity as the condition of fair and just opportunities for all people to succeed regardless of individual or group identity or differences.</p>	<p>Robust Equity as the intentional counter to inequality, institutionalized privilege and prejudice, and systemic deficits and the intentional promotion of thriving across multiple domains for those who experience inequity and injustice.</p>
<p>Learning and Development as the processing of experiences and information that leads to the acquisition of particular skills, knowledge, and competencies, including academic, social, emotional, and cognitive ones.</p>	<p>Transformative Learning & Development as the optimization of a learner’s ability to translate specific experiences and content into generalizable knowledge, competencies, and perspectives.</p>

The second step is agreement on a simple visual that depicts how these change-oriented factors combine. Formulas describe the relationships between independent and dependent variables. A good formula is a concise way to declare a goal and propose a strategy for achieving it. We suggest a simple multiplication statement: Transformative Learning & Development X Robust Equity = Thriving Youth. (Note: For Transformative Learning & Development we use an ampersand to emphasize the interconnection between learning and development).

The multiplier insert included with this formula emphasizes the fact that schools supplemented by a host of other organizations – including libraries, museums, employment training programs, community, faith and civic organizations – have been charged with or have taken on responsibility for creating structured experiences that support learning and development in different contexts with different content.



A concerted effort to not only increase the quality and quantity of intentional relationships and experiences created by adults in these organizations is critically needed but not sufficient. There is ample evidence that efforts within systems will be more successful if system leaders and staff are guided to recognize the fact that they and the young people they engage with are a part of a dynamic learning and development ecosystem.

The term ecosystem is frequently used to acknowledge the range of **settings where children, youth, and families live, learn, work, play, and make meaning**. Ecosystem researchers,² however, suggest the need for a more robust definition:

“Using ecological thinking changes the way we see the ecosystem itself: it is no longer a collection of participants and learning places with separate essences that need to be connected for individual children.... Instead, the learning ecosystem emerges as a constellation of inter-twined and entangled elements, where learning happens through dynamic relational processes among the people, places, and stuff we find across / within / between school and out-of-school places.”³

This ecological approach to thinking about the learning ecosystem moves away from an emphasis on individual learning outcomes as evidence of ecosystem health towards a focus on assessment of relational processes that exist between ecosystem actors. Assessing the health of relational processes versus the progress of the individual learner enables new ways of thinking about ecosystem design and management. This approach a) relies on a shared understanding of the conditions for optimal learning experiences that can be used across systems and settings, b) assumes that these conditions will be expressed differently based on the opportunities presented and the assets and perspectives brought into the experience by youth and adults, and c) establishes diversity (think about biodiversity) and communication (think about the importance of communication nodes in dynamic systems) as essential to ecosystem health.

What We Know About Thriving, Equity, and Learning and Development

The terms thriving, equity, and learning and development are often narrowly defined or limited to specific domains. This section reviews definitions of the concepts of thriving, equity, and learning and development that are grounded in research and policy.

Thriving

We can best understand thriving if we include two other terms that relate to thriving: well-being and flourishing. Well-being, flourishing, and thriving are distinct terms that have roots in different disciplines. But when aligned, these terms enable us to develop a more complete, equitable, and actionable definition of thriving.

Well-being. Well-being is a term employed in health, public health, psychology, and economics (particularly welfare economics) as a goal⁴ and as a social indicator. Well-being is a multi-dimensional construct that blends quality of life, subjective well-being, health, objective data, and other dimensions into a holistic perspective that includes social contexts, satisfaction, expectations, socioeconomic conditions, culture, societal values,⁵ identity development and safety.⁶ The domains of well-being include physical, economic, emotional, psychological, cognitive, and social well-being and they cover all social fields.⁷ Like thriving and flourishing, well-being research attends to the social contexts (including all places where youth learn and develop) that support well-being.⁸ Unlike thriving, studies of well-being include negative indicators (e.g., ill-being⁹) and indicators of being developmentally on track (e.g., the abilities to acquire appropriate capacities to prepare for adulthood and to engage the world in developmentally appropriate ways).¹⁰

Flourishing. Flourishing has roots in positive psychology. Flourishing provides an alternative to deficit-oriented theories on mental health.¹¹ It can be defined as “a state in which an individual feels positive emotion toward life and is functioning well psychologically and socially.”¹² Flourishing includes psychological well-being (e.g., highly or mostly satisfied with life domains); social well-being (e.g., positive relations with others and the experience of autonomy), and emotional well-being (e.g., a sense of belonging and social support).¹³ Just as thriving is more than the absence of problems or the development of basic competencies, flourishing is more than the absence of negative indicators.¹⁴

Thriving. Thriving is a term employed in youth development, developmental science, and health. Thriving is more than the absence of problems or the development of basic competencies; it is a dynamic and holistic process that involves children, youth, and adults influencing each other both in every moment as well as over time.¹⁵ Because children, youth, and adults are whole beings, thriving should be addressed across the many interconnected dimensions of well-being: physical, economic, emotional, psychological, cognitive, and spiritual/aesthetic.¹⁶ Because people affect each other and are in turn affected by each other in all dimensions, it is important to define thriving in collective as well as individual terms. And because individuals are influenced by and influence dynamic socio-cultural systems, it is important to address how thriving emerges in dynamic formal institutions (e.g., schools and youth centers) and informal spaces.¹⁷

Aligning Thriving, Flourishing, and Well-being. Children and youth develop as whole people in relationship to families and a broader social and cultural world that provides resources and opportunities and presents challenges. Well-being provides a base for individual thriving and flourishing — it can contribute to the ability to flourish or prosper.

At the individual level, well-being provides a foundation for thriving and ill-being limits possibilities. For example, although some stress and adversity may contribute to the optimization of some individuals, too much of a bad thing does not help, and in fact, through stress, will be harmful, and even resilience can have costs.¹⁸ Similarly, it is easier to flourish and thrive when you have sufficient nutrition, safety, housing, and wellness and are free from the stresses of racism. Conversely, it is harder to thrive when you lack such well-being.¹⁹

We have opted to use the term thriving in our work because, unlike flourishing, the concept of thriving is not just individual. We must address thriving at a group, societal, and (ideally) at a global level, where preventive interventions and policies eliminate or buffer risks, and where appropriate services that are consumer-driven, culturally competent, strengths-based and trauma sensitive can support the well-being of the whole person.²⁰ For example, appropriate strengths-based services and trauma sensitive approaches that focus on healing and engagement contribute both to a youth's ability to flourish and thrive (e.g., experiencing hope, happiness, imagination, aspirations, and trust) as well as support the ability of that youth to support the thriving others (e.g., their peers).²¹

Equity

Equity is an important but contested term in our nation where we continue to confront contradictory values and segregated experiences with inequality, inequity, and privilege.²² The term “equity” is frequently used as a label, goal, or decision-making lens, sometimes without definition or operationalization. Equity has been viewed in conflicting ways. On the one hand, “equity” is defined as minimizing inequity as opposed to “mechanistic approaches to equality”²³ that ignore the implications of people's starting points and assets. On the other hand, equity is viewed as “fair play.”²⁴

Unlike well-being, equity is almost always applied to a particular domain (e.g., education) or subdomains (e.g., access to gifted and talented classes) or population (e.g., African Americans). This is also the case on related research on inequities and disparities. We will focus on two terms which often intersect: educational equity and racial equity, knowing that there are relevant conceptualizations in other intersecting domains (e.g., health equity and economic equity).

Educational Equity. We provide two relevant definitions that are somewhat expansive. They come from Organization for Economic Cooperation and Development (OECD), the international organization of countries that are most similar to the U.S., and the U.S. Equity and Excellence Commission.

OECD conceptualizes educational equity as involving two dimensions: inclusion and fairness.²⁵ OECD operationalized inclusion as ensuring that all students reach at least a basic minimum level of skills and fairness as ensuring that personal or socio-economic circumstances (e.g., gender, ethnicity, family background, migrant background, special needs) are not obstacles to educational success.²⁶ “Equitable education systems are fair and inclusive and support their students to reach their learning potential without either formally or informally pre-setting barriers or lowering expectations.”²⁷ Equity does not mean that everyone gets the same materials or realizes the same results, but that everyone has the opportunity to achieve their potential.²⁸

The Equity and Excellence Commission was charged with providing advice “on the disparities in meaningful educational opportunities that give rise to the achievement gap, with a focus on systems of finance, and to recommend ways in which federal policies could address such disparities.”²⁹ The Commission called for mitigating poverty's effects by providing “broad access not only to early childhood education, but also to a range of support services necessary to promote student success and family engagement in school; effective measures to improve outcomes for student groups especially likely to be left behind—including English-language learners, children in Indian country or isolated rural areas, children with special education needs, and those involved in the child welfare or juvenile justice systems”.³⁰ The Commission's approach to equity was further operationalized by the Consensus Report on Indicators of Educational Equity, which spoke of the “distribution of certain goods and services is purposefully unequal so that the neediest of students may receive more of certain resources, often to compensate or make up for their different starting points.”³¹

Racial Equity. Racial equity has been defined and operationalized as equalizing the odds in a manner that addresses thriving.³² Equalizing the odds means creating conditions “that would be achieved if one’s racial identity no longer predicted, in a statistical sense, how one fares.”³³ Doing so involves creating the conditions where “people are meaningfully involved in the creation and implementation of the institutional policies and practices that impact their lives.”³⁴ Racial equity involves addressing “systemic racism to become a community in which all residents can thrive.”³⁵ The OECD and Equity and Excellence Commission definitions come together in the statement of The National Public Education Support Fund, which operationalized racial equity as:

- ▶ **The distribution of resources and opportunities is neither determined nor predicted by race, racial bias or racial ideology.**
- ▶ **The structures, systems, practices and cultural narratives in society provide true situational fairness and equal opportunity.**
- ▶ **There is a democratic commitment to dismantle the false narrative of white supremacy and address the legal, political, social, cultural and historical contributors to inequity.**
- ▶ **Families and individuals are able to thrive and flourish in the intersections of all aspects of their identity, including race, religion, gender, orientation, ability, and socioeconomic background.**
- ▶ **The most vulnerable communities in society have access to mechanisms to achieve social mobility and voice in naming their reality, describing how these systems of oppression play out, and developing solutions that draw upon their assets.**
- ▶ **All people, cultures and identities are equally valued and recognized under the belief that strength comes through the diversity and expression of our shared humanity.**³⁶

Aligning Educational and Racial Equity. Definitions of educational equity often focus on ensuring students from multiple, specified groups (e.g., students with disabilities, English language learners, low income students) realize a narrow set of outputs and outcomes (e.g., academic resources, attainment). Definitions of racial equity focus on the broader societal and institutional structures, practices and narratives that systematically result in disparities across domains. The conceptualizations of educational and racial equity presented both speak to fairness, realizing potential, and removing barriers to success while raising the bar for success. When we combine the inclusive definitions of educational equity with the already more expansive and systemically focused conceptualization of racial equity, we can develop a more robust conceptualization of equity that incorporates thriving and addresses human learning and development across all life spaces and over the life course.

Learning and Development

Learning occurs 24/7 over the entire life course, and in diverse range of settings, not just in schools. Learning and development dynamically interact in an integrated manner. Learning – the act of making meaning out of experiences – contributes to the development of skills and competencies.³⁷ As we explore the interrelatedness of these concepts, we use the term “learning and development” to capture this wholeness.

Every experience creates the potential for learning and development, both positive and negative, as the brain and mind process new information.³⁸ Learning and development includes changes at the neurobiological level, as our brain responds, changes in meaning making, and behavioral changes. There are dynamically interactive relations between a youth and their contexts that affect learning. Individual factors that play a key role include prior knowledge and beliefs; cognitive load and the boundaries of working memory; metacognitive skills; social and emotional competencies and dispositions; and motivations. Context is also crucial for learning. For example, youth learn better in environments that demonstrate and emphasize safety, inclusiveness, equity, support and connectedness,

challenges and engagement, and social and emotional development. Furthermore, culturally responsive and competent environments and educators support student learning, especially for culturally and linguistically diverse students. Learning is not a linear pathway, but skill development is progressive in that the skill growth build upon prerequisite skills.

Learning and development reflect the wholistic coaction of the mind, brain, body, and the individual's relationships to others. For example, social and emotional learning and development processes are inextricably linked neurobiologically and cognitively.³⁹ Human learning and development, and in particular the development of social, emotional and cognitive competencies, is critical to thriving because it empowers individuals to have agency and enables individuals to work together in support of thriving and equity. Learning and development is both individual and social.⁴⁰ While each of us has our learning and development journey, we do so with and in interaction with others and their products, and this includes the narratives that affect us and that we help create. Learning and development are enhanced by relationship-rich contexts. Although we can learn when we are alone, learning is always socially situated, through language, culture, media, the environment that people and policies share, and by socio-economic and geographical factors.

Learning and development is both individual and collective. Learning and development occur and can be understood individually, in two-person and small group settings, in larger settings (e.g., schools), and through larger social networks. Learning and development benefits from individual and collective thriving, including the well-being of all involved in the learning process, for example teachers, youth workers, and peers.⁴¹ Learning and development is both conscious and unconscious and takes place in environments and systems that directly or indirectly afford learning opportunities and constrain learning. Most learning and development involve interactions with others, and the quality of those relationships powerfully affects learning and development.

Aligning Research-based Definitions of Learning and Development with Common Usage. Technical definitions of human learning and development, or more specifically about the relationship between learning and development, vary. The more important push for alignment, however, is between the research-based definitions of learning and development and those in popular use. The term learning is sometimes reduced to focus on rote and surface learning and ignore the social, emotional, and experiential factors that contribute to learning. Similarly, the term development is sometimes associated only with natural growth and does not recognize intentional efforts to build competence. Narrow definitions of learning and development do not account for the interaction between the learning and development processes or the enormous variation in the ordering and pacing of skill development. They reinforce perceptions that can narrow our view of learning and limit our understanding of what young people can realize when we provide the right conditions.

Greater use of research-based definitions of learning and development can, at a minimum, help practitioners and decision-makers understand how to reduce the unintended consequences of policies and practices that emphasize instructional hours and factual content mastery because of the need for accountability) and assess progress by using age-based averages as the comparison point.

Key Findings from the Science of Learning and Development (SoLD) Research Syntheses

- 1. The ongoing, reciprocal relations between individuals' biology, their relationships, and the ecologies and contextual influences in which they are embedded determine the expression of their genetic endowment and ultimately their development as individuals.**
- 2. Genes are chemical “followers”; their expression is determined by contextual influences at the biological level; epigenetic adaptation determines the expression of our genetic makeup and is part of a system of ongoing two-way exchanges between human beings and the physical and social world that create qualitative changes over time.**
- 3. Malleability and neural plasticity are the core principles of human development.**
- 4. Each child's development is nonlinear, has its own unique pacing, and is highly responsive to context.**
- 5. The development of children's skills is progressive and does not occur in isolation; it requires the integration and layering of prerequisite skills.**
- 6. Social, emotional, and cognitive capabilities are fundamentally intertwined; they are interdependent in their development, experience, and use; neural integration and interconnectivity of children's cognitive, social, and emotional development is essential for well-being—both anatomically and functionally.**
- 7. Contextual influences and ecology cannot be ignored.**
- 8. Adversity can affect development, mental and physical health, and learning.**
- 9. Resilience and thriving in the face of adversity are possible and are a product of children's internal assets and supports from individuals within a child's social environment.**
- 10. Adults' buffering of stress plays a central role in healthy child development; therefore, building and supporting adult capacity are critically important tasks. Adults' experience of adversity and stress can affect their ability to provide this support.**
- 11. Schools and other child-serving systems are potentially powerful contexts through which stress can be buffered, neural integration and connectivity supported, and individual development nurtured.**
- 12. Culture, cultural responsiveness, and cultural competence are critical components of context and are profoundly important in shaping the experiences through which children grow.**

Source: Osher, Cantor, Caverly in Osher, Mayer, Jagers, Kendziora, and Wood, 2019

A Deep Dive into Individual and Collective Thriving

People and their communities develop and thrive in and across many dynamically interactive dimensions, which include aspects of their physical and mental health and economic well-being, their sense of self and of their community, and the social, emotional, and cognitive tools that equip them to address life's changes. Although people may focus on one dimension at a particular time or even one aspect of a particular dimension, and although they are treated and studied independently, these dimensions are interdependent and dynamically interactive. Mental models, therefore, are useful. There are numerous frames in use that cluster the specific aspects of thriving into dimensions.⁴² All are useful and share common features. For the purposes of this paper, we have organized our thinking about thriving into three dimensions:



Well-being

Well-being is a multi-dimensional construct that includes physical, economic, emotional, psychological, cognitive, and social dimensions and includes the quality of life, physical health and wellness, mental health and subjective well-being, and economic security and agency.

Physical Well-being. Health and the lack of health affect physical, cognitive, social and emotional development, work performance, parenting, and mortality. Evidence suggests links between various forms of physical activity and emotional, psychological, and cognitive benefits over the life course—for example, increased energetic feelings, improved mental health, and the promotion of brain structure and functions for attention, inhibition, and memory for children and youth.⁴³ And as the physical and social consequences of global warming and pandemics suggest, our well-being is also tied to the physical well-being of our planet and all living things. Physical well-being is important throughout life, and, as COVID-19 has highlighted.

While access to physically and emotionally safe environments, quality health care, and safe and nurturant recreation opportunities foster physical health, access to these opportunities is not equally available. There are social determinants of health disparities, and these particularly involve economic inequality and racism.⁴⁴

Social determinants of health include the experience of micro and macro aggressions, housing insecurity and homelessness, mass incarceration and the problematic policing of communities, food deserts, and poor transportation. Disparities in health outcomes reflect the built environment (e.g., lead effect and poisoning)⁴⁵ and less access to quality care and the related dependence upon constricted, aversive, and culturally inappropriate services. Although the root causes of health disparities are entrenched, it is possible to start to change outcomes while addressing the systemic roots. For example, while urban environments often contribute to psychological distress, randomized experiments involving greening vacant lots in Philadelphia reduced self-reported feelings of depression and worthlessness⁴⁶ and reduced shootings.⁴⁷

Mental and Emotional Well-being. Mental well-being is more than mental health; however, it builds upon it. Mental health has been conceptualized as the “successful performance of mental function, resulting in productive activities, fulfilling relationships with other people, and the ability to adapt to change and to cope with adversity.”⁴⁸ Mental health itself builds upon physical, economic, and emotional well-being,⁴⁹ and is undermined by ill-being in any of these domains. Mental wellness is more than the absence of mental health problems and includes both emotional and psychological wellbeing. It is enhanced by the ability to experience the world with gratitude, awe, and joy. Emotional well-being includes life satisfaction and individual and collective sense of hope and optimism. Well-being includes psychological well-being (e.g., highly or mostly satisfied with one’s experiences in life domains); social well-being (e.g., experiencing positive relations with others and autonomy), and emotional well-being (e.g., having a sense of belonging and social support).⁵⁰

Emotional well-being also involves the experience of voice and of one’s ability to act on the world – both individually and collectively.⁵¹ Hope and optimism are key here. Hope has been conceptualized as a “positive motivational state” that is built on the interactions between our sense of successful agency and goal-directed drive and plans or “pathways” for achieving goals.⁵² Hope relates to a sense of individual and collective efficacy, which contributes to motivation and persistence. Hope, for example, appears to contribute to first generation students persisting in higher education.⁵³ Hope is action-oriented; it involves acting on our positive beliefs about or expectations for the future and maintaining the motivation to reach goals, versus just having positive beliefs alone.⁵⁴ Individual hope and optimism are positively related to several indicators of youth thriving in school and life, including academic achievement, positive self-perceptions, expectations for the future, goal-directed thinking, sense of purpose, life satisfaction, and physical health and skills.⁵⁵ Likewise, hope and high levels of community efficacy are negatively related to depression, and hopelessness predicts some externalizing and risk behaviors.⁵⁶

Access to a full range of interventions to support mental health (promotion, prevention, treatment, and maintenance)⁵⁷ is particularly important for youth development. Untreated mental health problems, along with the inability of some schools and out-of-school settings to address the needs of young people with emotional and behavioral problems and disorders contribute to disparities, and race, poverty, and co-occurring disorders amplify this inequity.⁵⁸ For example, compared to other students (including other students with disabilities), children and youth identified as having emotional and behavioral disorders are more likely to be placed in restrictive settings, fail classes, have lower GPAs, be grade retained, be suspended from schools or programs, drop out of school and programs, have lower rates of graduation, have more encounters with juvenile and adult corrections, and realize poorer adult outcomes.⁵⁹ Children and youth of color have less access to preventive mental health care and effective treatment. When they do receive services, they are more likely to experience restrictive placements, stigmatizing labels, and aversive interventions that focus on behavioral compliance.

Preventing and responding to trauma and its impacts are key as exposure to traumatic events is common for young people.⁶⁰ There are disparities here as well: young people of color or who live in poverty, are homeless, LGBTQ, or have essential (e.g. healthcare, transit, child care, retail and delivery, etc.) or high-risk occupations (e.g., iron and steel workers, construction workers, etc.) are more likely to experience adversity (e.g., abuse and neglect, racism and discrimination) and this may be compounded by historical trauma.⁶¹ Most young people will report experiencing at least one traumatic event by the age of 16 (e.g., experiencing or witnessing violent acts; experiencing sexual

abuse; being diagnosed with an illness; being in a serious accident)⁶². Often young people are able, with support, to be resilient,⁶³ and the assets and protective factors that aid resilience include youth self-regulation and positive self-concept as well as support from adults.⁶⁴ Assets such as family attachment; supportive relationships with adults and peers at home, school and community; social supports; prosocial behaviors; social skills and competencies; moral beliefs; religiosity; and positive personal disposition, among others, foster positive mental, emotional, and behavioral development, while protecting against threats to mental health.⁶⁵

A consistent body of practice as well as evaluation data and research suggest that effective mental health should be: (1) culturally competent, responsive, and humble; (2) youth and family-driven; (3) ecological; (4) strengths-based and building; (5) coordinated; (6) provided across the relevant social fields; and (7) use relevant information for progress monitoring and improvement, and (8) build upon a universal foundation that is both promotive and prevention.⁶⁶ The best systemic approaches are culturally competent; multi-systemic (e.g., include schools and physical health); coordinated; include promotion, prevention, early intervention, and treatment; collaboratively involve stakeholders; and employ data for continuous quality improvement, and that these approaches can include and be employed by schools.⁶⁷ Systematic approaches to mental health should minimize the use of diagnostic labels, ensure that interventions build social and emotional competence (not just behavioral compliance), employ youth development strategies, support positive identity formation, and foster self and collective efficacy and voice.⁶⁸ For example, Howard Stevenson's and Shawn Ginwright's work with their respective colleagues illustrate how critical mindedness, active engagement of social networks, spiritual resources, and cultural resources can be used to buffer the effects of poverty and the often-related impacts of racial inequality in a trauma sensitive manner.⁶⁹

Economic Well-being. Economic resources include wealth, income, public social benefits, and social resources. Economic resources and equality contribute to well-being, while poverty and inequality contribute to ill-being.⁷⁰ Economic well-being includes the ability to meet basic needs, including those important for engaging in life domains (e.g., resources to go on a field trip), having control over their day-to-day finances, having the ability to make choices about their finances, and feeling financially secure. Economic well-being also includes the ability to absorb financial shocks, meet financial goals, build financial assets, and maintain adequate income throughout the lifespan. While it is realized by individual, families and communities, it is affected both by public policy and systematic factors.⁷¹ Institutionalized racism and privilege connect them in the U.S. when it comes to economic well-being and ill-being.⁷²

Poverty increases the risk for health, behavioral and cognitive problems,⁷³ which can contribute to social, behavioral, and academic challenges over the life course. The pathways and mechanisms for poverty's effects include housing insecurity and its consequences;⁷⁴ adult and children's stress responses;⁷⁵ the effects of scarcity on decision making,⁷⁶ neighborhood effects;⁷⁷ and school effects.⁷⁸ Although disadvantage and poverty create or exacerbate vulnerability and risk, individuals *and* communities can be resilient.⁷⁹ Frequently, responses to poverty and adversity focus on individual versus collective solutions. People use social networks, spiritual resources, and cultural resources to buffer the effects of poverty and the often-related impacts of racial inequality⁸⁰ and they can flock together and support collective positive adjustment.⁸¹ Examples of resources include the power of family commitment, youth organizing, and cultural socialization⁸² and positive racial and ethnic identity.⁸³

There are important relationships between and among economic well-being, equity, thriving, and learning and development, that are both direct and indirect. Economic and social inequality limits thriving and creates disadvantages that limit youth access to skills, opportunities, and credentials that could contribute to access to higher paying and higher status jobs.⁸⁴ Middle class resources and wealth create education advantages that play out throughout the life course and provide the opportunities to build internal developmental assets.⁸⁵ Education creates assets and risks through opportunities to learn, the lack of which generates student alienation and disengagement.⁸⁶ Economic resources and privilege, in no way ensure well-being. Privilege exempts people from encountering some of the challenges that build resilience and creates particular pressures to excel. Population studies indicate that affluent youth to be at higher risk for drug and alcohol use, as well as internalizing and externalizing problems.⁸⁷

Grounding

Everyone develops a sense of who they are in relationship to the world, and this grounding is particularly important in adolescence. Grounding is feeling anchored by knowing who you are and how you are connected to others. Grounding includes a sense of identity that addresses the multiplicity of roles and statuses one has, along with one's own unique experience in the social and physical world. Becoming grounded involves developing and making sense of one's identity and the roles and purposes that one can play. It also involves understanding and being enriched by cultural and spiritual connections, and it includes the experience of belonging to groups and being able to engage in and help shape the groups.

Identity. Identity development happens individually and in groups; the sense we make of these experiences, and how our experiences and sense making are informed by others who matter to us through webs of affiliation and cultural contexts. Identity develops across the lifespan, but adolescence is a key developmental period for identity; it is a time of increasingly goal-oriented learning and development, identity formation, autonomy assertion, and a growing sense of values.⁸⁸ Adolescent identity development consolidates attitudes, ideological and cultural beliefs, values, career goals, and life aspirations as adolescents search for meaning in their lives and start to construct a narrative identity.⁸⁹

Identity includes personal or self-identities (how we define and understand ourselves as individuals, including as a member of groups whom we identify with), and social identities (or statuses and roles, both chosen and ascribed) in relation to other people. Identity development is relational in nature; we develop our sense of self in interaction with others. Furthermore, there are multiple and often intersectional elements of identity—including but not limited to gender, sexual, racial, ethnic, cultural, religion, disability—that all have contextual relevance.⁹⁰ Identity formation is a socially situated dynamic interpersonal process that is influenced by micro and macro ecological factors.⁹¹ Emotionally- and identity-safe environments support identity development⁹² while at the same time contributing to emotional and academic well-being.⁹³ The interactions of youth and adults in these environments are important. These interactions can provide resources for identity formation, opportunities to test emergent identities, and feedback on those emergent identities.⁹⁴

Healthy identity development is particularly important but also challenging for minoritized and marginalized students who face microaggressions, overt prejudice, and acculturative stress which increases during adolescence.⁹⁵ Ethnic and Racial Identity (ERI) involves explorations and commitments⁹⁶ and includes feelings, beliefs, and attitudes.⁹⁷ A rich and consistent body of research shows the importance of developing a positive sense of racial or ethnic identity, and its increasing salience in middle and late adolescence.⁹⁸ Meta-analyses and reviews suggest positive racial identity promotes healthy adjustment among African American, Latinx, Asian American and Pacific Islander, and American Indian youth.⁹⁹

Meaning, Religion/Spirituality, and Purpose. Meaning, religion/spirituality, and purpose affect identity development and well-being. Meaning in life is malleable, self-evaluated, and involves our ability to understand our life circumstances, be aware of our motivations, and feel our life is important.¹⁰⁰ A sense of meaning can support adolescent well-being¹⁰¹ and serves both promotive and protective purposes.¹⁰² Purpose also interacts with meaning and identity. A sense of purpose can contribute to physical and mental health, reduced risk behaviors, increased prosocial behaviors, goal-directed orientations, hope, positive affect, and happiness, and buffer against adverse circumstances.¹⁰³

Religious identity/participation and spirituality can be sources of self-images, role models, ideals, world views, and meaning that can be supports for youth development and identity development. Spirituality has been conceptualized as “engagement with the sacred” while “believers are united with the sacred and to each other through religiosity.”¹⁰⁴ Religious experience can include beliefs and the associated meaning making processes and connections with our inner selves, others, and/or transcendent experiences.¹⁰⁵ Spirituality involves similar elements including beliefs

and values and connectedness. Religious participation and spirituality during adolescence has generally positive links with emotional and psychological health, educational, and civic outcomes. Like other domains of adaptive development, religious and spiritual growth can be fostered by ecological influences and supports including schools, families, and community settings, among others.¹⁰⁶

Civic and Community Engagement. Civic engagement such as political participation, activism, organizing, and community service supports identity development along with “skills and knowledge, networks and relationships, and feelings of purpose and meaning.”¹⁰⁷ These personal and social assets contribute to success in other domains¹⁰⁸ and are levers for building social capital and social and emotional competencies. There are also positive associations between civic participation and engagement and psychosocial well-being, emotional health, and physical health. Civic engagement includes how young people engage in shaping classrooms, school, organizations and the communities in which they live. Civic engagement includes youth participatory-led and youth-informed research that can start early in adolescence and can be transformational.¹⁰⁹

Civic engagement can be supported in a manner that is consistent with the characteristics of effective youth development programs: (1) opportunities for youth participation in and leadership of activities; (2) emphasis on the development of life skills; and (3) positive and sustained adult-youth relationships.¹¹⁰ Civic opportunities and youth-adult partnerships and collaborations in civic endeavors can potentially meet those criteria, especially when youth are genuinely and meaningfully engaged: “Meaningful youth engagement is an inclusive, intentional, mutually-respectful partnership between youth and adults whereby power is shared, respective contributions are valued, and young people’s ideas, perspectives, skills and strengths are integrated into the design and delivery of programs, strategies, policies, funding mechanisms and organizations that affect their lives and their communities, countries and globally.”¹¹¹

Agency

Youth and adults need portable and adaptable social, emotional, and cognitive competencies that support a sense of agency. These transferable competencies enable youth and adults to address life’s continually evolving demands, navigate multiple social contexts, develop individual and collective social capital, and work with other to address the individual and collective problems that their communities and the world face, including the causes and impacts of prejudice, privilege, and inequity.

Social and Emotional Competencies include the skills and knowledge that helps individuals understand and manage their emotions and relationships with others, such as family, peers, teachers, and trusted adults. Key skills relate to self-regulation, self-awareness, social awareness, and decision-making skills.¹¹² There are over 120 frameworks that describe social and emotional competencies, including emotional intelligence, 21st Century Learning, and life skills.¹¹³ Social and emotional competencies contribute to school and work success in adulthood as well as to the avoidance of short- and long-term challenges.¹¹⁴ Competencies are developmental and malleable, with major windows of opportunity occurring during early childhood, adolescence, and adulthood.

Social and Emotional Learning (SEL) is the process by which children and adults acquire and apply core competencies to recognize and manage emotions, set and achieve positive goals, appreciate the perspectives of others, establish and maintain supportive relationships, make responsible decisions, and handle personal and interpersonal situations constructively.¹¹⁵ In addition to SEL, there are several approaches geared to promoting competency development, including character education, prosocial education, and positive youth development.¹¹⁶

Approaches to SEL have evolved.¹¹⁷ A decade ago, SEL approaches focused on student-level interventions in schools and manualized programs. Now, SEL focuses on individual development within social contexts, extends to out-of-school time, focuses on adults, and incorporates common ingredients.¹¹⁸ Similarly, SEL approaches to equity have changed. Until recently, most SEL advocates defined equity as equitable access to SEL programming, and most SEL frameworks did not address privilege, bias, and cultural competency or the disconnect between individualistic

approaches to SEL and collectivist cultural strengths.¹¹⁹ This is changing. The Collaborative for Academic, Social, and Emotional Learning presents a case for “transformative SEL,” where youth and adults build strong, respectful relationships founded on an appreciation of similarities and differences, learn to critically examine root causes of inequity, and develop collaborative solutions to community and social problems and outlines approaches and practices relevant for youth and adults.

SEL is inextricably linked to climate and conditions for learning and development.¹²⁰ While conditions for learning and development affect all learning and development, they may be particularly salient regarding social and emotional well-being due to the importance of SEL and co-regulation in SEL, as well as the power of peer reinforcement. Adult social and emotional competencies and cultural responsiveness are particularly important here, as the learning and

Transformative SEL

Transformative SEL explicitly addresses power, privilege, prejudice, discrimination, social justice, empowerment, and self-determination and should help all youth build awareness of privilege and bias, address racism, and develop the ability to navigate diverse settings and expectations in culturally competent ways and work effectively in diverse teams.

While doing so, Transformative SEL addresses acculturative stress, stereotype threat, alienation, institutional mistrust, and disengagement, all of which reproduce or exacerbate education and economic inequities. The conceptualization of Transformative SEL addresses the five key SEL competencies (self-awareness, self-management, social awareness, relationship skills, and responsible decision making) with an equity lens and operationalizes identity, agency, belonging, and engagement as “transformative expressions” of the five competencies.

Source: Jagers, Rivas-Drake, & Williams (2019)

development of social and emotional competencies are emotionally and culturally salient. Youth are more able to receive mentorship and utilize feedback and guidance from adults whom they experience as authentic, caring for and respectful for them and their family, and who model social and emotional competence in their own behavior. Trauma sensitive and culturally responsive SEL approaches, when aligned with trauma informed/approaches and treatment, help contribute to restorative approaches to discipline and address the impact of trauma.¹²¹

Cognitive and Intellectual Contributors. A variety of cognitive skills, capacities, and accumulated experiences maximize learning and development-related well-being for children and youth and help equip them for a thriving future and the ability to navigate the instrumental and ethical challenges they will face through life.¹²² While

young people need job related skills, technology-related skills, and skills related to supporting academic success, (including the ability to read, write, and express themselves orally), thriving and robust equity require transformative skills and knowledge. Key cognitive and intellectual contributors to well-being include metacognition, deeper learning and development, critical thinking, and creativity. While the development of these skills, capacities, and experiences are important, they are all to infrequently available to, students who face social and economic disadvantage.¹²³ Although all youth can benefit from a stimulating environments where creativity, critical thinking, originality and expressiveness are valued, where they explore, muse and express their ideas in different ways,¹²⁴ these opportunities are unequally unavailable due to resource constraints or deficit-based beliefs.¹²⁵

Metacognition. Metacognition is an active process of reflection, sense-making, and self-assessment, that is related to self-awareness.¹²⁶ Metacognition facilitates becoming active participants in the learning and development process, supports neural integration, helps individuals prevent some mistakes and learn from others,¹²⁷ and supports transferring knowledge to new situations.¹²⁸ Strategies that encourage metacognition push learners to reflect on the process of learning and development, including how well they are learning and developing, their affective states, and how new knowledge fits into their existing knowledge.¹²⁹ Metacognition can be nurtured at a collective level, where peers can support each other's ability to be metacognitive.¹³⁰

Deeper Learning. Deeper learning is the process of active engagement in learning and development that allows young people to continuously explore, critically reflect upon content, and understand and produce complex thought and models.¹³¹ Deeper learning involves higher level and cognitive processing, analytical and critical thinking and the ability to synthesize and interpret diverse information, along with the ability to communicate knowledge learned and apply the skills and knowledge in new circumstances. Deeper learning can be contrasted with surface learning where youth use lower level cognitive functions such as simple memorization or rote learning.¹³² For example, New Pedagogies for Deep Learning focuses on character, citizenship, collaboration, communication, creativity, and critical thinking – the “6 C’s.”¹³³ This model moves toward “liberating learning”¹³⁴ and can be connected to developing critical consciousness, which has been tied to a developmental systems perspective on youth thriving.¹³⁵

Creativity. Creativity is not a trait or an a priori stable property of only special people.¹³⁶ Creativity involves complex, multi-faceted and co-influential processes that can be fostered and realized in all life domains and disciplines.¹³⁷ Creativity involves social and emotional as well as cognitive factors and has neurobiological underpinnings.¹³⁸ Creativity is malleable, learnable, critical to life success, and can be developed in many individuals;¹³⁹ and it is strongly influenced by social, relational, and other contextual factors.¹⁴⁰ Creativity involves a combination of cognitive skills, dispositions, social and emotional competencies, and environmental factors.¹⁴¹ In addition, there are social, emotional, cognitive, and neurobiological conditions for both learning to be creative and for being creative. For example, learning to be creative may involve risk taking and the ability to handle failure, both of which can be affected by individual social-emotional attributes (e.g., self-awareness and self-regulation), appropriate social support, and the conditions for learning and development (e.g., emotional safety). Originality often involves perspective taking and the willingness to pursue ideas that others do not promote and the ability to assess which ideas are worth pursuing. Further, creativity can have collective components and involve the shared creation and discovery where “two or more individuals with complementary skills interacting to create a shared understanding that none had previously possessed or could have known on their own.”¹⁴²

Aligned Conceptualizations: Thriving, Robust Equity, and Transformative Learning & Development

In the first section of this paper, we introduced a formula and provided brief definitions of thriving, robust equity, and transformative learning & development.

In this section, we offer the detail behind these conceptualizations and describe the roles that systems, settings, adults, and peers can play in promoting or undermining thriving, equity, and individuals' capacity to realize their fullest potential. By providing not just definitions but guidelines, we invite leaders to engage in discussion about the extent to which their efforts meet these criteria.

Given what we collectively know about each of these concepts, we now offer a more complete and actionable conceptualization of youth success that focuses on definitions of thriving, equity, and learning and development that are strengths-based and are grounded in convergent science findings and practice wisdom regarding how youth thrive. We describe the roles that systems, settings, adults and peers can play in promoting or undermining thriving, equity, and individuals' capacity to realize their fullest potential.

Thriving

Thriving is a dynamic process that goes beyond well-being to include individual and collective growth in grounding and agency.

- **Strengths-based – more than well-being and resilience.**
- **Multi-dimensional – reflecting growth or success in any number of domains from physical to economic to spiritual.**
- **Linked to internal characteristics and external conditions that interrelate to enable or thwart progress.**

Thriving is more than being well; it also includes a sense of doing well. Thriving is a strengths-based concept that describes both one's immediate state as well as being on a path towards optimal development. Thriving is more than just being competent, resilient, and without problems. Thriving is multidimensional and exists at subjective, whole body, and sociological levels. Thriving is dynamically linked to key internal characteristics and assets, including social, emotional and cognitive competencies, skills, and dispositions. Thriving is also related to the social and physical environment: there is a dynamic relationship between and among individual, collective, and environmental thriving. Thriving is context-dependent, and contextual factors promote or constrain thriving.

Resilience and well-being are important parts of the thriving journey because adversity is normative, and trauma and ill-being undermine thriving. Well-being also includes subjective well-being, which is pivotal to thriving. Resilience and well-being are necessary but not sufficient conditions for thriving; rather, they set a lower threshold. Interventions should incorporate thriving as a goal so that supports for well-being are designed to build the individual and social capacities that undergird thriving.

While thriving has physical and material dimensions, thriving also has an important subjective dimension. An individual's sense of thriving can reflect growth or success in any number of domains – physical, social, civic, intellectual, spiritual, economic, and others. An individual's situation, including their cultural lenses and their social networks and other reference points, influences what thriving domains they see as important, and how they view success. Since people learn over time and encounter new situations, their perceptions of thriving may also change.

Thriving involves children, youth, and adults supporting each other both in every moment as well as over time in dynamic relationship with each other and to culture, social structures, and the physical environment. The ability of individuals and groups to thrive affects as well as is affected both by equity and individuals' and groups' capacity to

realize their potential through learning and development. Considering thriving when we address equity necessitates that we address physical and social emotional and economic wellness including subjective well-being. Considering thriving when we support learning and development necessitates that we focus on learning and development across all parts of a young person's life; provide culturally responsive youth driven conditions for learning and the development of portable social, emotional, and cognitive assets; expand the array and richness of learning opportunities and address agency, engagement, and meaning-making.

Robust Equity

Robust Equity is the intentional counter to inequality, institutionalized privilege and prejudice, and systemic deficits and the intentional promotion of thriving across multiple domains for those who experience inequity and injustice.

- **Requires the essentials – intentionally countering inequality and institutionalized privilege and prejudice, addressing contextual deficits, building on individual and community assets and creating conditions that support overall well-being.**
- **Multi-dimensional – mindful of overall thriving, and how well-being or ill-being in one area contributes to well-being or ill-being in others (e.g., education and poverty).**
- **Cumulative – rooted in historical awareness, with a commitment to long-term, complex change.**

The terms equity and equality are not the same. Equity is more than a commitment to equal access. Equal access to one service (e.g., higher-level courses) without attention to issues of quality, identity, stereotype threat, implicit bias, and opportunities to learn make it unlikely that all children are equally able to participate – emotionally and cognitively – and, therefore, will not result in equal outcomes. Efforts to achieve equity in a single area or to reduce disparities between populations will be limited as these domains interact at an individual, group, and social system level. For example, housing inequities contribute to, and can be reinforced and exacerbated by health and educational inequities.

Robust equity efforts should address thriving in multiple domains as their goal – not just well-being in one domain or equalized odds for success between specific groups. Robust commitments to equity in each domain need to be expansive and address both the individual and collective dimensions of thriving. Expansiveness involves multiple subdomains (e.g. agency plus identity plus sense of purpose and meaning plus spiritual grounding).

Robust equity-oriented strategies address both macro societal, cultural, system, agency, group, provider level, and individual factors that enhance or limit equity. At a socio-political level they intentionally counter inequality and institutionalized privilege and prejudice, address contextual deficits, and create conditions that support individual and collective well-being. They provide opportunities for individuals and groups of individuals to build connections, perspective and competencies and make changes that can transform their lives individually and collectively. Robust equity efforts ensure that the most marginalized, minoritized, disenfranchised, and excluded individuals and communities have access to and create for themselves, mechanisms to thrive, achieve social and political mobility and voice in naming their realities, addressing how these systems of oppression play out, and developing solutions that draw upon and build individual and collective strengths.

Robust equity is cumulative. Even though equity decisions may focus on one outcome or apply to one domain or system at one moment in time, the results of these decisions are affected by individual and collective equity status in other dimensions and over time (e.g., income security vs. wealth accumulation). Therefore, it is important that decisions take into account the cross system and domain effects and address longer-term consequences.

Transformative Learning & Development

Transformative Learning & Development

is the optimization of a learner’s ability to translate specific experiences and content into generalizable knowledge, competencies, and perspectives.

- **Broader than schooling and academics**
- **Critical for understanding human capacity to thrive, not just survive**
- **Holistic—involving social, emotional, cognitive, spiritual, aesthetic, kinesthetic, and expressive dimensions**

Learning and development are not limited to schools; both occur in all settings in which individuals participate. Learning and development are distinct but intertwined processes. The science of learning and development tells us that learning begins immediately and continues throughout the life span, with heightened opportunities to shape and develop social, emotional and cognitive skills occurring in early childhood and adolescence. Definitions of learning and development that focus on skill mastery or achievement are insufficient. More powerful definitions of learning and development should emphasize transformation over information transmission and/or accumulation. The goal of learning is not only knowledge and skill acquisition but transferable, transformative competencies. Because competencies are developed and demonstrated in multiple contexts, it is possible that young people, especially marginalized young people, develop and demonstrate these competencies outside of formal school environments. Young people’s inability to feel safe and respected in formal environments then limits their ability to master required content, creating vicious cycles.¹⁴³

Transformative environments are intentionally constructed, refined, and maintained in order to build social, emotional, and cognitive competencies and optimize the individual and collective ability to make meaning of experience¹⁴⁴ and build portable competencies, skills, and attitudes that individuals and groups can use to assess and transform their own lives, contexts and communities. While doing so, transformative environments should enrich learners’ whole being and connection to others and to the world. This includes addressing and providing opportunities to: develop mindsets, self-awareness, perspective taking and compassion; build senses of identity and purpose, agency and hope; imagine a future self and community; experience spiritual and cultural grounding, connectedness, and civic engagement, awe and wonder along with aesthetic, kinesthetic design and opportunities for expression; and the ability to build and use creativity and critical thinking.

Transformative learning & development emphasizes the development of psychological, social, and intellectual assets over rote learning and scripted performance. It enhances youth’s sense of self and others, develops habits of mind, and equips youth with portable and fungible skills, competencies, and experiences. Transformative learning & development involves agency, community, and the practice of freedom—not passivity, competition, or compliance. Transformative learning & development includes critical thinking, metacognition, and the skills necessary to collaborate with diverse individuals to solve tough problems and disagreements.

The science of learning and development and research on transformative processes indicate the critical role adults can play in supporting transformative learning when they recognize and address: a) the potential all young people and adolescents have to succeed and the inherent unevenness of learning and its pacing, b) the role that social, emotional and cognitive needs play not only in supporting content learning but in developing complex skills needed to thrive, c) the importance of environments, experiences and cultures in shaping learning and development, and d) the transformative power of developmental relationships where adults deliberately and consciously create a safe environment, build trust, help learners overcome their fears, create possibilities, foster self-discovery, and work with the whole person.¹⁴⁵

Adults can create safe supportive environments for learning and development that foster strong relationships, relational trust and community; support motivation, competence, senses of possibility, and self-directed learning; infuse opportunities for collaboration and social and emotional learning that fosters skills, habits, and mindsets that build agency; and coordinate a system of supports that respond to young people's needs, build as well as build upon their strengths, and support enable healthy development and thriving.¹⁴⁶ For example, adults can adopt educative and restorative approaches to rule development and enforcement (e.g., codes of conduct) so youth do not experience exclusion, learn empathy and responsibility, feel more a part of the group or community, and develop their capacity to be responsible for and to themselves and to their group or community.¹⁴⁷

Recent efforts from the Alliance for Excellent Education and the National Academies of Sciences, Engineering, and Mathematics expand the research on learning and development to underscore adolescence as a period of significant development and opportunity. Adolescents are both (a) active agents in their own learning and development and (b) benefit from supportive relationally rich environments that are culturally responsive and provide youth with opportunities and supports that enable them to thrive.¹⁴⁸ This, in turn, depends upon the supports provided to build the readiness of adults to attune to and address the needs of each young person while appreciating the strengths of the young person, their family, their culture, and their community.

Adolescence as a Window of Opportunity

1. Adolescence is a time of remarkable opportunity.
2. Adolescent brains are adapting to the developmental tasks of this stage of life.
3. Adolescents are drawn to novel experiences.
4. Adolescents are highly sensitive to respect.
5. Adolescents starts earlier than we think and lasts longer than it used to.
6. Adolescents are a force for good.

Source: Dahl, 2019

Learning and development approaches should be youth-driven and transformative. Young people learn with and from each other. They learn best in environments that provide rich opportunities to learn that are marked by physical, emotional, psychological, identity, and intellectual safety; support and connectedness; challenge and engagement; support for developing transformative social and emotional skills and dispositions; and include spiritual, kinesthetic, and aesthetic dimension. Transformative learning environments are culturally responsive and attend to intersectionality and to intersectional identities. These environments address young people as whole individuals and as members of families and communities, which have histories and are actively being built and rebuilt each day by members. Context is crucial for learning and development, and this context is affected by the individual well-being, collective thriving and equity, and the well-being and capacity of the adults who support youth.

Beyond Business as Usual

Opportunities to thrive across and within the three dimensions of thriving (well-being, grounding, and agency) are not systematically available and are sometimes systemically denied. It is important to build upon community, individual, and systemic assets to strategically address opportunity-deficits and disparities at a policy, system, program, and setting level.

Changing business is not just changing the actions or intentions of individuals (e.g. teachers, youth workers, police and security officers). It requires systemic efforts at every level of intervention that ensure that every adult 1) understands how relationships and experiences across contexts drive learning and development,¹⁴⁹ 2) recognizes the power they have to influence youth thriving and success, 3) is empowered to create opportunities and nurturant for transformative learning and development *that support inclusivity and robust educational equity*, and 4) uses that power in support of thriving and robust equity.¹⁵⁰

Facing History and Ourselves is an organization that challenges biases and segregated thinking. Facing History and Ourselves uses lessons of history to challenge teachers and their students to stand up to bigotry and hate. The organization supports educators and transforms schools through curriculum and professional development and convenes community members to create meaningful dialogue about complex and challenging topics, such as race in U.S. history, antisemitism and religious intolerance, global immigration, and more.

Source: Facing History (2020)

That said, change only registers when policy and procedural changes are consistently implemented and continuously assessed at the point of service— the settings where young people and adults come together. Relationship-rich settings that support transformative learning and development optimize two strategic approaches:

Opportunities for Transformative Learning & Development: instructional strategies, processes, protocols, and assessments that support youth learning how to think creatively and create solutions and reinforce the vital nature of this learning in daily lessons, activities, and longer-term cooperative projects,¹⁵¹ and

Supportive Conditions for Learning and Development: restorative, relational, and developmental approaches to behavioral support and rule enforcement, so that youth learn and develop active citizenship skills, see themselves as part of a community, contribute to the community, and understand their responsibility for themselves and their community.¹⁵²

Opportunities for Transformative Learning & Development

Youth benefit from transformative opportunities for learning and development that provide and support:

- ▶ **Meaningful work** that builds on youth prior knowledge and experiences and actively engages youth in rich, engaging tasks that foster deep learning and development and help youth achieve conceptual understanding and transferable knowledge and skills.¹⁵³
- ▶ **Inquiry as a major learning and development strategy**, thoughtfully interwoven with dialogical approaches, explicit instruction, and well-scaffolded opportunities to practice and apply learning.¹⁵⁴
- ▶ **Well-designed collaborative learning and development opportunities and service-learning projects** that encourage youth to think critically, question, explain, elaborate their thoughts and co-construct solutions.¹⁵⁵
- ▶ **Formative assessments and timely, supportive feedback** so that youth can develop and exhibit competence and improve upon their efforts.¹⁵⁶
- ▶ **Opportunities to develop metacognitive skills** through planning and management of complex tasks, self- and peer-assessment, and reflection on learning and development.¹⁵⁷ This includes the up-front time to think in new ways and for planning that addresses the nature of a problem (or challenge), how to solve it, represent it, and monitor ones work and think in new ways.¹⁵⁸
- ▶ **Opportunities to develop and use social, emotional, and cognitive skills**, such as self-awareness, perspective taking and empathy, the ability to collaborate and resolve conflicts as a part of their work to acquire required content or skills (academic, vocational, behavioral) and to apply them broadly, including opportunities for civic engagement.
- ▶ **Opportunities for critical analysis to challenge biases in knowledge sources, learning opportunities and skill assessment** through the intentional support for and encouragement of systemic and critical thinking that includes not is not limited to the critical review of texts and information and the application of critical thinking to salient current events.
- ▶ **Challenging biases and segregated thinking** through embracing diversity of group membership and interaction, creating emotionally and identity safe spaces, supporting perspective taking, explicitly raising elephants that may be in the room (e.g., racism, colorism, privilege, homophobia, sexism, minoritization) and upstanding against them when they are manifest, and using historical and literary sources and experiential learning to learn from and about diverse perspectives.

Relationship rich settings that provide these opportunities can help youth individually and collectively to realize their full potential as intelligent, creative, socially responsible, critical thinking whole persons. For example, creativity-rich environments enable youth to experience themselves as “active authors of their own development, strongly influenced by natural, dynamic, self-righting forces within themselves” which opens the path to growth and learning.¹⁵⁹

Supportive Conditions for Learning and Development

Relationship rich settings build supportive conditions for learning and development. These conditions reflect and contribute to the dynamic interaction of everybody. They include organizational (or group/family) culture, rules and how they are developed and enforced, the physical environment including greenspace, the supports available to young people and adults, the way in which these supports are organized, and the social and emotional conditions for learning and development.¹⁶⁰

The supporting conditions for learning and development include:

- ▶ **Safety** – Physical, emotional, psychological, identity and intellectual safety (e.g., to feel safe to think outside of the box).¹⁶¹ This includes health promotions and preventing and addressing the stereotype threat, microaggression, and bullying and their impacts. This also includes actively involving youth in creating, realizing, and assessing procedures and rituals that create predictability and ensure safety which respect youth needs to experience voice and autonomy. This includes youth participation in setting rules, boundaries, and expectations, and employing relational and restorative approaches to discipline.¹⁶²
- ▶ **Connectedness** – Belonging, membership, connectedness; feeling part of a warm and caring community that is culturally inclusive embraces, values, and addresses diversity among individuals and groups and their families.¹⁶³
- ▶ **Support** – Instrumental and emotional support regarding learning and development; this includes the availability and accessibility of effective support and experiencing that support of having developmental relationships with adults and near peers, and experiencing all adults as caring and supportive.
- ▶ **Challenge** – The experience of personally relevant learning and development expectations and support to realize those expectations. This includes the stretch youth feel, an emphasis on learning and development, not performance, as well as how engaging learning is; how youth experience feedback, and whether they experience learning and development as related to the current and future lives.
- ▶ **Peer and adult social and emotional competence** – Although social and emotional competencies are individual, they function as a condition for other members of the community, both individually and in aggregate.¹⁶⁴
- ▶ **Cultural competence and responsiveness** – A set of congruent behaviors, attitudes, and policies that enables adults to work effectively (ideally proficiently) in bicultural and multicultural interactions and for youth and their families to experience respect, humility, as well as emotional and identity safety.¹⁶⁵

The social and emotional conditions for learning and development interact. For example, safety is strongly associated with peers' and adults' social and emotional competence and challenge with the experience of support.¹⁶⁶ Social and emotional conditions for learning & development reflect the co-actions among all members of a community, how these interactions are interpreted, and how people play out (as well as continue to shape) the setting's structure and culture.¹⁶⁷

The effects of social and emotional conditions for learning and development are both direct (e.g., through their effects on learner identity and self-concept) and indirect (e.g., through effects of adult stress and capacity to support youth).¹⁶⁸ Social and emotional conditions for learning and development do more than affect learning and development; they affect youth development, and well-being.¹⁶⁹ Social and emotional conditions may be particularly important for children who face hurdles, whether the hurdles are developmentally normative such as transitions between types of school or socially created adversities such as homelessness.¹⁷⁰

Cultural responsiveness and competence provide an example of the many ways the conditions for learning and development and the processes that frame them can affect learning and development. Cultural responsiveness is particularly important for culturally and linguistically diverse youth who experience disconnects between curricula and pedagogy on the one hand, and on the other, their experience, knowledge, and cultural capital.¹⁷¹ These disconnects place cognitive and emotional demands on students, who must master new knowledge without the benefits of culturally embedded prior knowledge.¹⁷² These cultural disconnects undermine challenge as they make it harder for youth to perceive themselves as successful learners and to visualize the connection between their schoolwork or program experiences, lives, and promising futures.¹⁷³

Culturally responsive approaches leverage cultural resources additively, and employ culturally sustaining approaches to social, emotional, and cognitive learning and development, which include literature and the arts. These approaches provide an equitable and transformative alternative to subtractive approaches that ignore the cultural and experiential assets and funds of knowledge and skills that youth, their families, and their communities bring with them or viewing those collective assets as a deficits.¹⁷⁴ Instead, culturally responsive approaches build upon youth strengths and create a learning and development environment where they feel they belong and where they are emotionally and intellectually safe, supported, and challenged. While doing so, culturally responsive approaches promote thriving and address emotional, motivational, interpersonal, and learning and development needs.¹⁷⁵ Culturally responsive approaches connect what youth know to new concepts and content in order to promote effective information processing.¹⁷⁶ Culturally responsive approaches also support meaning making in that they reference what youth are familiar with and offer a connection.¹⁷⁷

Cultural competence can help programs, schools, and communities systematically address the disconnects, challenges, and adversities that culturally and linguistically diverse youth and their families routinely face due to their culture, race, ethnicity, gender, and social class. Barriers include institutionalized processes and individual behaviors and are related to disparities in educational opportunities and outcomes.¹⁷⁸ Institutionalized processes include resource allocation, rituals, policies, protocols, and practices. Individual behaviors include harassment, macroaggressions, and negative stereotyping. Institutionalized processes negatively affect student goals, attention, effort, identity, and self-efficacy,¹⁷⁹ and drain the psychic energy available to address particular tasks.¹⁸⁰ For example, stereotype threat increases anxiety, negative thinking, and can limit working memory and other executive functions.¹⁸¹ While many individuals persevere, these barriers can create stress, place extra demands on working memory, drain cognitive resources, and impact health.¹⁸²

From Bright Spots to Systems Change

These settings exist in schools, districts, and communities across the country. However, there is ample documentation that these are not equitably distributed within states, communities or even within school buildings. There is also evidence that, in the absence of an intentional focus on inclusivity and robust equity, these strategies may fall short of the goal: supporting the thriving of each and every young person. This is why targeted efforts to create setting and system-level guidance for linking commitments to transformative learning with commitments to robust equity are critical.

While systemic change that addresses all dimensions of individual and collective thriving is important, we can also start in one primary dimension – as improvements in any one dimension enhance the chances for positive developmental outcomes.¹⁸³ There are several examples in the state of California.

Partnership for Children & Youth is an advocacy and capacity-building organization championing high-quality learning opportunities for underserved youth in California, with an emphasis on after school, summer learning, and community schools. In 2015, Partnership for Children & Youth launched an initiative called Expanded Learning 360/365, which created professional learning communities to address cross-sector (in school and out-of-school) alignment on SEL and school climate. The initiative brought together leaders from school districts and expanded learning organizations to focus on planning, aligning, and implementing SEL across the school day, afterschool, and summer.

Another example comes from California Afterschool Network, which provides professionals, advocates, and community members the tools and resources necessary to build high-quality out-of-school time programs in California. The California Afterschool Network launched their Whole Child Health and Wellness Collaborative in 2019 to create a statewide strategic plan to promote prevention, and positive health and wellness outcomes for families, schools, and communities. California Afterschool Network is engaging a wide range of stakeholders in the strategic planning process, including expanded learning, education, intervention, public health, health care, behavioral health, social services, and treatment stakeholders.

Most recently, the California Department of Education called for school districts to reach out to their expanded learning partners in their re-opening efforts.¹⁸⁴

At their best, each intervention provides opportunities and supports to affirmatively develop mindsets, self-awareness, perspective taking and compassion; build senses of identity and purpose, agency and hope; imagine a future self and community; experience spiritual and cultural grounding, connectedness, and civic engagement, awe and wonder along with aesthetic, kinesthetic design and opportunities for expression; and the ability to build and use creativity and critical thinking.

The research evidence presented in this paper can be summarized as follows:

- 1. Thriving youth are the goal. Thriving is the dependent variable we want to define, research, and work to increase. Research confirms that thriving is more than a status or a state of well-being in a single area (e.g., health). Thriving reflects a sense of growth or success in any number of domains.**
- 2. Thriving is influenced by internal characteristics and attributes and external conditions. Other things being equal, young people with access to more and better resources (opportunities/advantages) are more likely to thrive. At the same time, young people who are resilient are better equipped to overcome adversity and take advantage of scarce opportunities.**
- 3. Characteristics and conditions interrelate – each influences the other through the common door of experiences. Research describes how a young person’s characteristics are not only influenced by their experiences but also influence the adults who shaped the experiences.¹⁸⁵**
- 4. These characteristics and conditions can be improved independently with intentional investments. Individual characteristics and external conditions naturally change over time. They can also be improved by design. Young people, especially in their adolescent years, can make intentional choices and undertake efforts to build skills and competencies needed to experience agency even in the face of adversity. Systems and communities can make intentional efforts to address social and economic inequities.**
- 5. These intentional investments must be designed to fundamentally enhance the everyday relationships and experiences of youth. It is the intentionality of these experiences and the relationships with adults and peers within them that multiplies their impact to transform the learning and create the equity that leads to youth thriving.**
- 6. Expanding access to equitable, transformative environments that focus on thriving (beyond a single outcome), optimize transformative learning (beyond knowledge transfer), enhance development (beyond early adolescence) and address multiple determinants of inequity is a targeted and effective way to accelerate individual and collective thriving.**

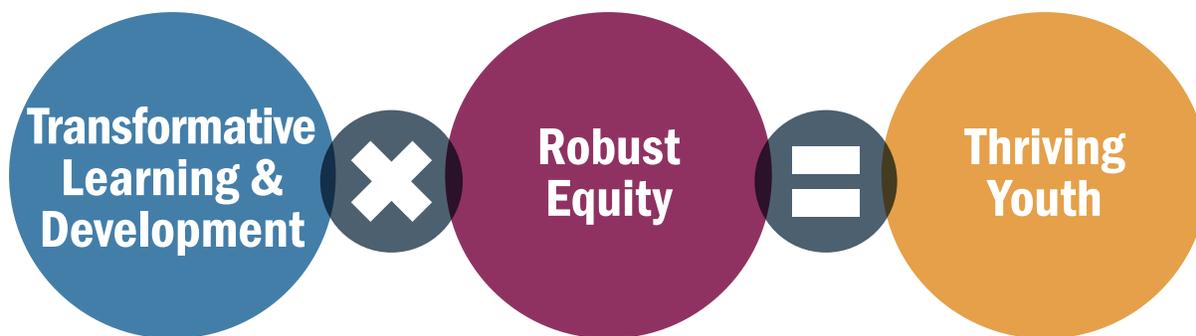
Conclusion

Developing more powerful conceptualizations of thriving, robust equity, and transformative learning and development – and considering them together – enriches our understanding of each. It helps us recognize and address the social factors that act as constraints as well as forge pathways forward that promote both individual and collective thriving, in the moment and over time. These more powerful conceptualizations of the contributors to youth success are grounded in the research evidence. To be actionable, they must also be rooted in a deep understanding of the broader societal contexts.

Young people develop within contexts marked by inequality (e.g., wealth, income, neighborhood resources) and institutionalized privilege and prejudice that can result in disparities, implicit bias, marginalization, micro-aggressions, cultural disregard, segregation, and discrimination, among other effects. These adverse experiences and environmental conditions can expose some youth to excessive risks and repeated stresses that can lead to trauma and toxic stress which, in turn, can impact one's ability to thrive and learn. Many individuals succeed in some ways despite those disadvantages, often because they have benefited from individual and collective supports. However, universal thriving and robust equity cannot be realized without intentionally dismantling privilege, inequity, and injustice that routinely burden learning and development and contribute to social, emotional, physical, and economic ill-being.

Although some may say tackling these challenges are an impossibility, especially in hard times, it is ever more important given the cumulative impacts of pandemics, global warming, population growth, environmental degradation, racism, colonialism, and privilege. While the challenges are increasingly undeniable, they are driving an equally undeniable and collective movement for change.

A More Powerful Conceptualization of the Contributors to Youth Success



Transformative Learning & Development

is the optimization of a learner's ability to translate specific experiences and content into generalizable knowledge, competencies, and perspectives.

The powerful definition of learning is:

- ▶ Broader than schooling
- ▶ Intertwined with development
- ▶ Holistic – involving social, emotional, cognitive, spiritual, aesthetic, kinesthetic, and expressive dimensions

Young people's sense of themselves as a learner is:

- ▶ Shaped by their experiences of having or building the competencies needed to respond, adapt, achieve
- ▶ Influenced by messages received from others
- ▶ Anchored in the confidence that they have the ability to develop and a key role to play in it
- ▶ Enhanced by their ability, as a part of belonging to an identified group, to make collective meaning of their experiences

Leaders acknowledge:

- ▶ Transformative learning & development can occur in all environments if the adults in these environments are intentionally equipped to optimize experiences the potential for learning in all contexts
- ▶ Transformative learning & development is youth-driven
- ▶ Transformative learning & development is culturally responsive

Robust Equity is the intentional counter to inequality, institutionalized privilege and prejudice, and systemic deficits and the intentional promotion of thriving across multiple domains for those who experience inequity and injustice.

The powerful definition of equity is:

- ▶ Requires the essentials – intentionally countering inequality and institutionalized privilege and prejudice, addressing contextual deficits, building on individual and community assets and creating conditions that support overall well-being.
- ▶ Multi-dimensional – mindful of overall thriving, and how well-being or ill-being in one area contributes to well-being or ill-being in others (e.g., education and poverty).
- ▶ Cumulative – rooted in historical awareness, with a commitment to long-term, complex change

Young people's sense of themselves as a learner is:

- ▶ Influenced by the degree to which they and their peers have needed experiences and relationships
- ▶ Informed by their awareness and experience of how their groups are treated

Leaders acknowledge:

- ▶ Focus on thriving, not just surviving
- ▶ Create access and accountability working from the margins into the mainstream
- ▶ Surface and address complexity – across systems, across domains of development, and over time

Thriving is a dynamic process that goes beyond well-being to include individual and collective growth in grounding and agency.

A powerful definition of thriving is:

- ▶ Strengths-based – more than well-being and resilience.
- ▶ Multi-dimensional – reflecting growth or success in any number of domains from physical to economic to spiritual
- ▶ Linked to key internal and external characteristics and assets that interrelate to enable or thwart progress

Young people's sense of themselves as a learner is:

- ▶ Summative, reflecting an overall sense of well-being and future success or growth
- ▶ Relational, reflecting an individual's sense of connection to others
- ▶ Calibrated to cultural lenses and social networks
- ▶ Adjusted over time as experiences and perceptions change

Leaders acknowledge:

- ▶ Establish well-being as a threshold
- ▶ Affirm the importance of resiliency as a socially supported individual response to adversity
- ▶ Create explicit accountability for strengthening individual and group capacities to thrive

Endnotes

- ¹ Osher, D., Cantor, P., Berg, J., Steyer, L., & Rose, T. (2018). Drivers of human development: How relationships and context shape learning and development. *Applied Developmental Science*, 1–31; Cantor, P., Osher, D., Berg, J., Steyer, L., & Rose, T. (2018). Malleability, plasticity, and individuality: How children learn and develop in context. *Applied Developmental Science*, 23(4), 307–337.
- ² Hecht, M. & Crowley, K. (2019). Unpacking the learning ecosystems framework: Lessons from the adaptive management of biological ecosystems. *Journal of the Learning Sciences*. doi.org/10.1080/10508406.2019.1693381; Akiva, T., Delale-O'Connor, L. & Pittman, K. (2020). The Promise of building equitable ecosystems for learning. *Urban Education*. doi.org/10.1177/0042085920926230
- ³ Hecht, M. & Crowley, K. (2019). Unpacking the learning ecosystems framework: Lessons from the adaptive management of biological ecosystems. *Journal of the Learning Sciences*. doi.org/10.1080/10508406.2019.1693381
- ⁴ IOM (Institute of Medicine) and NRC (National Research Council). (2014). *Investing in the health and well-being of young adults*. Washington, DC: The National Academies Press.
- ⁵ Bourke, L., & Geldens, P. M. (2007). Subjective wellbeing and its meaning for young people in a rural Australian center. *Social Indicators Research*, 82(1), 165-187. Diener, E., & Suh, E. M. (Eds.). (2000). *Culture and subjective well-being*. Cambridge, MA: The MIT Press.; Pollard, E. L., & Lee, P. D. (2003). Child well-being: A systematic review of the literature. *Social Indicators Research*, 61(1), 59–78; Stiglitz, J., Fitoussi, J., & Durand, M. (2018). *Beyond GDP: Measuring what counts for economic and social performance*. Paris: OECD Publishing.
- ⁶ American Psychological Association, Task Force on Resilience and Strength in Black Children and Adolescents (2008). *Resilience in African American children and adolescents: A vision for optimal development*. Washington, DC: Author. Retrieved from <http://www.apa.org/pi/cyf/resilience.html>; Williams, A. D., Clark, T. C., & Lewycka, S. (2018). The associations between cultural identity and mental health outcomes for indigenous Māori youth in New Zealand. *Frontiers in Public Health*, 6(319).
- ⁷ Bornstein, M. H., Davidson, L., Keyes, C. L. M., & Moore, K. A. (2003). *Well-Being: Positive development across the life course*. Mahwah, NJ: Lawrence Erlbaum Associates, Inc.; Federal Interagency Forum on Child and Family Statistics (2019). *America's children: Key national indicators of well-being*. Washington, DC: U.S. Government Printing Office; Tov, W., & Au, E. W. M. (2013). Comparing well-being across nations: Conceptual and empirical issues. In I. Boniwell, S. David, & A. Conley (Eds.), *Oxford Handbook of Happiness* (pp. 448-464). Oxford, UK: Oxford University Press.
- ⁸ Helliwell, J. F., & Putnam, R. D. (2004). The social context of well-being. *Philosophical Transactions: Biological Sciences*, 359(1449), 1435-1446.; OECD (2017). *PISA 2015 results: Students' well-being* (Vol. III). Paris, France: OECD Publishing.
- ⁹ Amerijckx, G., & Humblet, P. C. (2014). Child well-being: What does it mean? *Children & Society*, 28(5), 404–415; Banati, P., & Diers, J. (2016). Measuring adolescent well-being: National adolescent assessment cards (NAACs). *Innocenti Research Brief*, 10. New York, NY: UN; Lippman, L. (2009). Positive indicators of child well-being: A conceptual framework, measures and methodological issues. Florence: Unicef Innocenti Research Centre; Nagode, M., Boljka, U., & Narat, T. (2018). *IRSSV child well-being index: Substantial challenges, methods and applicability*. Social Protection Institute of the Republic of Slovenia.; Pollard, E. L., & Lee, P. D. (2003). Child well-being: A systematic review of the literature. *Social Indicators Research*, 61(1), 59–78).
- ¹⁰ Raghavan, Ramesh & Alexandrova, Anna. (2014). *Toward a Theory of Child Well-Being*. *Social Indicators Research*. 121. 10.1007/s11205-014-0665-z.
- ¹¹ Keyes, C. L. M. (2002). The mental health continuum: From languishing to flourishing in life. *Journal of Health and Social Behavior*, 43(2), 207–222; Keyes, C. L. M. & Haidt, J. (2003). Human flourishing – The study of what makes life worthwhile. In C. L. M. Keyes & J. Haidt (Eds.), *Flourishing: Positive psychology and the life well-lived*. Washington, DC: American Psychological Association; Ryff, C. D., & Singer, B. (2000). Interpersonal flourishing: A positive health agenda for the new millennium. *Personality and Social Psychology Review*, 4(1), 30–44. https://doi.org/10.1207/S15327957PSPRO401_4; Seligman, M. E. P. (2011). *Flourish*. Free Press.
- ¹² Keyes, C. L. M. (2003). Complete mental health: An agenda for the 21st century. In C. L. M. Keyes & J. Haidt (Eds.), *Flourishing: Positive psychology and the life well-lived*. (pp. 293–312). Washington, DC: American Psychological Association.
- ¹³ Keyes, C. L. M. (2002). The mental health continuum: From languishing to flourishing in life. *Journal of Health and Social Behavior*, 43(2), 207–222; Keyes, C. L. M. (2005). Mental illness and/or mental health? Investigating axioms of the complete state model of health. *Journal of Consulting and Clinical Psychology*, 73(3), 539–548.; Keyes, C. L. M. (2007). Promoting and protecting mental health as flourishing: A complementary strategy for improving national mental health. *American Psychologist*, 62(2), 95–108.
- ¹⁴ Moore, K. A., & Lippman, L. H. (Eds.) (2005). *What do children need to flourish: Conceptualizing and measuring indicators of positive development*. New York, NY: Springer Science + Business Media.
- ¹⁵ Benson, P. L., & Scales, P. C. (2009). The definition and preliminary measurement of thriving in adolescence. *The Journal of Positive Psychology*, 4(1), 85–104; Gestsdottir, S., & Lerner, R. M. (2007). Intentional self-regulation and positive youth development in early adolescence: Findings from the 4-H Study of Positive Youth Development. *Developmental Psychology*, 43(2), 508–521; Kendziora, K., & Osher, D. (2016). Promoting children's and adolescents' social and emotional development: District adaptations of a theory of action. *Journal of Clinical Child and Adolescent Psychology*. Special Section: From Adoption to Adaptation. doi: 10.1080/15374416.2016.1197834; Lerner, R. M. (2004). *Liberty: Thriving and civic engagement among America's youth*. Thousand Oaks, CA: Sage Publications, Inc.; Lerner, R. M., Dowling, E. M., & Anderson, P. M. (2003). Positive youth development: Thriving as the basis of personhood and civil society. *Applied Developmental Science*, 7(3), 172–180.

- ¹⁶ Miller, J. P., Nigh, K., Binder, M. J., Novak, B., & Crowell, S. (Eds.) (2019). *International handbook of holistic education*. New York: Routledge; Ryff, C. D., & Krueger, R. F. (2018). *The Oxford handbook of integrative health science*. New York, NY: Oxford University Press.
- ¹⁷ Osher, D., Cantor, P., Berg, J., Steyer, L., & Rose, T. (2018). Drivers of human development: How relationships and context shape learning and development. *Applied Developmental Science, 1*–31; Overton, W. F. (2015). Processes, relations, and relational-developmental-systems. In W. F. Overton, P. C. M. Molenaar, & R. M. Lerner (Eds.), *Handbook of child psychology and developmental science: Theory and method* (Vol. 1, 7th ed.) (pp. 9–62). Hoboken, NJ: John Wiley & Sons Inc.
- ¹⁸ Cantor, P., Osher, D., Berg, J., Steyer, L., & Rose, T. (2018). Malleability, plasticity, and individuality: How children learn and develop in context. *Applied Developmental Science, 23*(4), 307–337; Hostinar, C. E., & Miller, G. E. (2019). Protective factors for youth confronting economic hardship: Current challenges and future avenues in resilience research. *American Psychologist, 74*(6), 641–652.
- ¹⁹ Barnes, A. J., Gilbertson, J., & Chatterjee, D. (2018). Emotional health among youth experiencing family homelessness. *Pediatrics, 141*(4), 1–8; Hostinar, C. E., & Miller, G. E. (2019). Protective factors for youth confronting economic hardship: Current challenges and future avenues in resilience research. *American Psychologist, 74*(6), 641–652.
- ²⁰ Bornstein, M. H., Davidson, L., Keyes, C. L. M., & Moore, K. A. (2003). *Well-Being: Positive development across the life course*. Mahwah, NJ: Lawrence Erlbaum Associates, Inc.; Bornstein, M. H., & Leventhal, T. (2015). Children in bioecological landscapes of development. In M. H. Bornstein, T. Leventhal, & R. M. Lerner (Eds.), *Handbook of child psychology and developmental science: Ecological settings and processes* (Vol. 4, 7th ed.) (pp. 1–5). Hoboken, NJ: John Wiley & Sons Inc.; Osher, D., Mayer, M. J., Jagers, R. J., Kendziora, K., & Wood, L. (2019). *Keeping students safe and helping them thrive: A collaborative handbook on school safety, mental health, and wellness*. Santa Barbara, CA: Praeger; Ryff, C.D & Krueger, R. F. (2018). *The Oxford Handbook of Integrative Health Science*. New York, NY: Oxford University Press.
- ²¹ Ginwright, S. A. (2015). Radically healing black lives: A love note to justice. *New Directions for Student Leadership, 2015*(148), 33–44; Osher, D., Moroney, D., & Williamson, S. (2018). *Creating safe, equitable, engaging schools: A comprehensive, evidence-based approach to supporting students*. Harvard Education Press.
- ²² Foner, E. (2019). *The second founding: How the Civil War and Reconstruction remade the Constitution*. New York, NY: W.W. Norton & Company, Inc. Ellison, R. (1944). *Invisible Man*. Random House, Inc.; Myrdal, G. (1944). *An American dilemma: The negro problem and modern democracy*. New York: Harper & Bros.
- ²³ Ryan, W. (1982). *Equality*. New York, NY: Vintage Books.
- ²⁴ Ryan, W. (1982). *Equality*. New York, NY: Vintage Books.
- ²⁵ Field, S., Kuczera, M., & Pont, B. (2007). *No more failures: Ten steps to equity in education*. Paris, France: OECD Publishing.
- ²⁶ OECD (2012). *Equity and quality in education: Supporting disadvantaged students and schools*. Paris, France: OECD Publishing.; OECD (2019). *Balancing school choice and equity: An international perspective based on PISA*, Paris, France: PISA, OECD Publishing PISA.
- ²⁷ OECD (2012). *Equity and quality in education: Supporting disadvantaged students and schools*. Paris, France: OECD Publishing.
- ²⁸ OECD (2019). *Balancing school choice and equity: An international perspective based on PISA*, Paris, France: PISA, OECD Publishing PISA.
- ²⁹ The Equity and Excellence Commission. (2013). *For each and every child: A Strategy for education equity and excellence*. Retrieved from <https://www2.ed.gov/about/bdscomm/list/eec/equity-excellence-commission-report.pdf>.
- ³⁰ The Equity and Excellence Commission. (2013). *For each and every child: A Strategy for education equity and excellence*. Retrieved from <https://www2.ed.gov/about/bdscomm/list/eec/equity-excellence-commission-report.pdf>.
- ³¹ The Equity and Excellence Commission. (2013). *For each and every child: A Strategy for education equity and excellence*. Retrieved from <https://www2.ed.gov/about/bdscomm/list/eec/equity-excellence-commission-report.pdf>.
- ³² W.K. Kellogg Foundation. (n.d.). *What we do: Overview*. Retrieved from <https://www.wkcf.org/what-we-do/overview>
- ³³ W.K. Kellogg Foundation. (n.d.). *What we do: Overview*. Retrieved from <https://www.wkcf.org/what-we-do/overview>
- ³⁴ Center for Social Inclusion (n.d.). *What is racial equity?* Retrieved from <https://www.centerforsocialinclusion.org/our-work/what-is-racial-equity/>
- ³⁵ Meyer Foundation (n.d.). *Why racial equity?* Retrieved from <https://www.meyerfoundation.org/why-racial-equity>
- ³⁶ National Public Education Support Fund (n.d.). *What do we mean by racial equity?* Retrieved from <https://www.npesf.org/2017/11/16/mean-racial-equity/>
- ³⁷ Cantor, P., Osher, D., Berg, J., Steyer, L., & Rose, T. (2018). Malleability, plasticity, and individuality: How children learn and develop in context. *Applied Developmental Science, 23*(4), 307–337; Osher, D., Cantor, P., Berg, J., Steyer, L., & Rose, T. (2018). Drivers of human development: How relationships and context shape learning and development. *Applied Developmental Science, 1*–31.
- ³⁸ De Houwer, J., Barnes-Holmes, D., & Moors, A. (2013). What is learning? On the nature and merits of a functional definition of learning. *Psychonomic Bulletin & Review, 20*(4), 631–642.

- ³⁹ Immordino-Yang, M. H. (2016). Emotion, sociality, and the brain's default mode network. *Policy Insights from the Behavioral and Brain Sciences*, 3(2), 211–219.
- ⁴⁰ Rose, T. (2016). *The End of Average: How We Succeed in a World That Values Sameness*. New York, Harper Collins; Vygotsky, L. S. (2004). Imagination and creativity in childhood. *Journal of Russian & East European Psychology*, 42(1), 7–97.
- ⁴¹ Greenberg, P.A. & Jennings, M. T. (2009). The Prosocial classroom: Teacher social and emotional competence in relation to student and classroom outcomes. *Review of Educational Research*. doi.org/10.3102/0034654308325693; Osher, D., Cantor, P., Berg, J., Steyer, L., & Rose, T. (2018). Drivers of human development: How relationships and context shape learning and development. *Applied Developmental Science*, 1–31.
- ⁴² Nagaoka, J., Farrington, C. A., Ehrlich, S. B., & Heath, R. D. (2015). *Foundations for Young Adult Success: A Developmental Framework*. Concept Paper for Research and Practice. University of Chicago Consortium on Chicago School Research; Gambone, M.A., Klem, A.M. & Connell, J.P. (2002). Finding Out What Matters for Youth: Testing Key Links in a Community Action Framework for Youth Development. Philadelphia: Youth Development Strategies, Inc., and Institute for Research and Reform in Education.
- ⁴³ Chaddock-Heyman L, Hillman CH, Cohen NJ, Kramer AF. III. (2014) The importance of physical activity and aerobic fitness for cognitive control and memory in children. *Monographs for Society on Research in Child Development*, 79(4):25-50. doi:10.1111/mono.12129; Dipietro L, Campbell, W. W., Buchner, D. M., et al. (2019). Physical Activity, Injurious Falls, and Physical Function in Aging: An Umbrella Review. *Med Sci Sports Exerc*. 51(6):1303-1313. doi:10.1249/MSS.0000000000001942; Falck, R. S., Davis, J. C., Best, J. R., Crockett, R. A., & Liu-Ambrose, T. (2019). Impact of exercise training on physical and cognitive function among older adults: a systematic review and meta-analysis. *Neurobiology of aging*, 79, 119–130; Liao, Y., Shonkoff, E. T., & Dunton, G. F. (2015). The Acute Relationships Between Affect, Physical Feeling States, and Physical Activity in Daily Life: A Review of Current Evidence. *Frontiers in psychology*, 6, 1975. doi.org/10.3389/fpsyg.2015.01975; Pascoe, M. C. & Parker, A. G. (2019). Physical activity and exercise as a universal depression prevention in young people: A narrative review. *Early Intervention in Psychiatry*, 13(4). doi.org/10.1111/eip.12737; Reed, J., & Ones, D. S. (2006). The effect of acute aerobic exercise on positive activated affect: A meta-analysis. *Psychology of Sport and Exercise*, 7(5), 477–514. https://doi.org/10.1016/j.psychsport.2005.11.003; Salmon, P. (2001). Effects of physical exercise on anxiety, depression, and sensitivity to stress: A Unifying theory. *Clinical Psychology Review*, 2(21); Weiss, M. R., Kipp, L. E., & Bolter, N. D. (2012). Training for life: Optimizing positive youth development through sport and physical activity. In S. M. Murphy (Ed.), *The Oxford handbook of sport and performance psychology* (pp. 448-475). Oxford University Press.
- ⁴⁴ Paradies Y, Ben J, Denson N, Elias A, Priest N, Pieterse A, et al. (2015) Racism as a Determinant of Health: A Systematic Review and Meta-Analysis. *PLoS ONE* 10(9): e0138511. https://doi.org/10.1371/journal.pone.0138511
- ⁴⁵ Needleman, J., Buerhaus, P., Mattke, S., Stewart, M., & Zelevinsky, K. (2002). Nurse-staffing levels and the quality of care in hospitals. *The New England journal of medicine*, 346(22), 1715–1722. https://doi.org/10.1056/NEJMs012247
- ⁴⁶ South, E. C., Hohl, B., Kondo, M., MacDonald, J. & Branas, C. (2018). Effect of greening vacant land on mental health of community-dwelling adults: A Cluster randomized trial. *JAWA Network Open*, 1(3). doi:10.1001/jamanetworkopen.2018.0298
- ⁴⁷ Moyer, R., MacDonald, J. M., Ridgeway, G. & Branas, C. C. (2019). Effect of Remediating Blighted Vacant Land on Shootings: A Citywide Cluster Randomized Trial. *American Journal of Public Health*, 109. doi.org/10.2105/AJPH.2018.304752
- ⁴⁸ Preboth M. (2000). Surgeon General releases mental health report. *American family physician*, 61(12), 3739–3740.
- ⁴⁹ Miles, L. K., Karpinska, K., Lumsden, J., & Macrae, C. N. (2010). The meandering mind: vection and mental time travel. *PLoS one*, 5(5), e10825. https://doi.org/10.1371/journal.pone.0010825
- ⁵⁰ Keyes, C. L. M. (2002). The mental health continuum: From languishing to flourishing in life. *Journal of Health and Social Behavior*, 43(2), 207–222; Keyes, C. L. M. (2005). Mental illness and/or mental health? Investigating axioms of the complete state model of health. *Journal of Consulting and Clinical Psychology*, 73(3), 539–548; Keyes, C. L. M. (2007). Promoting and protecting mental health as flourishing: A complementary strategy for improving national mental health. *American Psychologist*, 62(2), 95–108.
- ⁵¹ Sapp, J. & Cohen, C. (2019). *Let's Make a Better World: Stories and Songs by Jane Sapp*. Chicago: University of Chicago Press; Freire, 1978, 1993, 1994; Peter McInerney (2009) Toward a critical pedagogy of engagement for alienated youth: insights from Freire and school-based research, *Critical Studies in Education*, 50:1, 23-35, DOI: 10.1080/17508480802526637 ; Giroux, H. A. (2010). Rethinking Education as the Practice of Freedom: Paulo Freire and the Promise of Critical Pedagogy. *Policy Futures in Education*, 8(6), 715–721. https://doi.org/10.2304/pfie.2010.8.6.715
- ⁵² Snyder, C. R., Irving, L. M., & Anderson, J. R. (1991). Hope and health. In C. R. Snyder & D. R. Forsyth (Eds.), *Pergamon general psychology series*, Vol. 162. *Handbook of social and clinical psychology: The health perspective* (p. 285–305). Pergamon Press.
- ⁵³ Tinto, V. (2017). Through the eyes of students. *Journal of College Student Retention: Research, Theory & Practice*. doi.org/10.1177/1521025115621917
- ⁵⁴ Marques, S. C., & Lopez, S. J. (2014). The promotion of hope in children and youth. In Fava, G. A., & Ruini, C. (Eds), *Increasing psychological well-being in clinical and educational settings*, New York: Springer; Shek, D. T.L., Yu L., Zhu X. (2016). Evaluation of a leadership and intrapersonal development subject for university students in Hong Kong: Findings based on two years. *International Journal on Disability and Human Development*, 15(1):101–109. doi: 10.1515/ijdh-2015-0028.

- 55 Lopez, S.J. & Rose, S. & Robinson, C. & Marques, S.C. & Pais-Ribeiro, Jose. (2009). Measuring and promoting hope in schoolchildren. *Handbook of Positive Psychology in the Schools*. 37-51; Marques, S. C., & Lopez, S. J. (2014). The promotion of hope in children and youth. In Fava, G. A., & Ruini, C. (Eds), *Increasing psychological well-being in clinical and educational settings*, New York: Springer; Shek, D. T.L., Yu L., Zhu X. (2016). Evaluation of a leadership and intrapersonal development subject for university students in Hong Kong: Findings based on two years. *International Journal on Disability and Human Development*, 15(1):101-109. doi: 10.1515/ijdh-2015-0028.
- 56 Marques, S. C., & Lopez, S. J. (2014). The promotion of hope in children and youth. In Fava, G. A., & Ruini, C. (Eds), *Increasing psychological well-being in clinical and educational settings*, New York: Springer; Donnelly, L., McLanahan, S., Brooks-Gunn, J., Garfinkel, I., Wagner, B. G., Jacobsen, W. C., Gold, S., & Gaydos, L. (2016). Cohesive Neighborhoods Where Social Expectations Are Shared May Have Positive Impact On Adolescent Mental Health. *Health affairs (Project Hope)*, 35(11), 2083-2091. <https://doi.org/10.1377/hlthaff.2016.0721>. Browning, C. R., Gardner, M., Maimon, D., & Brooks-Gunn, J. (2014). Collective efficacy and the contingent consequences of exposure to life-threatening violence. *Developmental psychology*, 50(7), 1878-1890. <https://doi.org/10.1037/a0036767>. Fagan, A. A., Wright, E. M., & Pinchevsky, G. M. (2014). The protective effects of neighborhood collective efficacy on adolescent substance use and violence following exposure to violence. *Journal of youth and adolescence*, 43(9), 1498-1512. <https://doi.org/10.1007/s10964-013-0049-8>
- 57 National Academy of Sciences, Engineering, and Medicine. (2019). *The promise of adolescence: Realizing opportunity for all youth*. Retrieved from <https://www.nap.edu/catalog/25388/the-promise-of-adolescence-realizing-opportunity-for-all-youth>
- 58 National Academy of Sciences, Engineering, and Medicine. (2019). *The promise of adolescence: Realizing opportunity for all youth*. Retrieved from <https://www.nap.edu/catalog/25388/the-promise-of-adolescence-realizing-opportunity-for-all-youth>
- 59 Leone, P., Quinn, M. & Osher, D. (2002). Collaboration in the juvenile justice system and youth serving agencies: Improving prevention, providing more efficient services, and reducing recidivism for youth with disabilities. Washington, DC: American Institutes for Research; Osher, David & Quinn, Mary & Kendziora, Kimberly & Woodruff, Darren & Rouse, Gerald. (2002). *Addressing Invisible Barriers: Improving Outcomes for Youth with Disabilities in the Juvenile Justice System*. Monograph Series on Education, Disability and Juvenile Justice; Osher, D. M., Quinn, M. M., & Hanley, T. V. (2002). Children and youth with serious emotional disturbance: A national agenda for success. *Journal of Child and Family Studies*, 11(1), 1-11. <https://doi.org/10.1023/A:1014774526006>
- 60 Copeland, W. E., Keeler, G., Angold, A., & Costello, E. J. (2007). Traumatic events and posttraumatic stress in childhood. *Archives of General Psychiatry*, 64, 577-84; Finkelhor D., Turner H. A., Shattuck A., Hamby S. L. (2015). Prevalence of Childhood Exposure to Violence, Crime, and Abuse: Results From the National Survey of Children's Exposure to Violence. *JAMA Pediatrics*, 169(8):746-754. doi:10.1001/jamapediatrics.2015.0676
- 61 Guarino, K. & Caverly, S. (2019). The Impact of trauma and adversities. In Osher, D., Mayer, M. J., Jagers, R. J., Kendziora, K., & Wood, L. *Keeping students safe and helping them thrive: A collaborative handbook on school safety, mental health, and wellness*. Santa Barbara, CA: Praeger; Shonkoff J.P., Boyce W.T., McEwen B.S. (2009). Neuroscience, molecular biology, and the childhood roots of health disparities: building a new framework for health promotion and disease prevention. *JAMA*, 301(21):2252-2259. doi:10.1001/jama.2009.754
- 62 Copeland, W. E., Keeler, G., Angold, A., & Costello, E. J. (2007). Traumatic events and posttraumatic stress in childhood. *Archives of General Psychiatry*, 64, 577-84.
- 63 Osher, D., Cantor, P., Berg, J., Rose, T., & Steyer, L. (2017). *The Science of learning and development*. Washington, DC: American Institutes for Research, Turnaround for Children, The Opportunity Institute, The Learning Policy Institutes, EducationCounsel.
- 64 Zolkoski, S. M., & Bullock, L. M. (2012). Resilience in children and youth: A review. *Children and Youth Services Review*, 34(12), 2295-2303. <https://doi.org/10.1016/j.childyouth.2012.08.009>
- 65 Bethell, C., Jones, J., Gombojav, N., Linkenbach, J, Sege, R. (2019). Positive Childhood Experiences and Adult Mental and Relational Health in a Statewide Sample: Associations Across Adverse Childhood Experiences Levels. *JAMA Pediatr*, 173(11). doi:10.1001/jamapediatrics; Feeney, B. & Collins, N. L. (2015). A New look at social support: A Theoretical perspective on thriving through relationships. *Personality and Social Psychology Review*.doi.org/10.1177/1088868314544222; National Academy of Sciences, Engineering, and Medicine. (2019). *The promise of adolescence: Realizing opportunity for all youth*. Retrieved from <https://www.nap.edu/catalog/25388/the-promise-of-adolescence-realizing-opportunity-for-all-youth>
- 66 Osher, D., Mayer, M. J., Jagers, R. J., Kendziora, K., & Wood, L. (2019). *Keeping students safe and helping them thrive: A collaborative handbook on school safety, mental health, and wellness*. Santa Barbara, CA: Praeger.
- 67 National Academy of Sciences, Engineering, and Medicine. (2019). *The promise of adolescence: Realizing opportunity for all youth*. Retrieved from <https://www.nap.edu/catalog/25388/the-promise-of-adolescence-realizing-opportunity-for-all-youth>; Osher, D., Dwyer, K., & Jackson, S. (2004). *Safe, supportive and successful schools: Step by step*. Longmont, CO: Sopris West Educational Services; Osher, D., Moroney, D., & Williamson, S. (2018). *Creating safe, equitable, engaging schools: A comprehensive, evidence-based approach to supporting students*. Harvard Education Press.
- 68 Anderson, R. E., & Stevenson, H. C. (2019). RECASTing racial stress and trauma: Theorizing the healing potential of racial socialization in families. *American Psychologist*, 74(1), 63-75; Ginwright, S. (2006). Racial justice through resistance: Important dimensions of youth development for African Americans. *National Civic Review*, 95(1), 41-46.
- 69 Anderson, R. E., & Stevenson, H. C. (2019). RECASTing racial stress and trauma: Theorizing the healing potential of racial socialization in families. *American Psychologist*, 74(1), 63-75; Ginwright, S. (2006). Racial justice through resistance: Important dimensions of youth development for African Americans. *National Civic Review*, 95(1), 41-46.

- ⁷⁰ Wilkinson, R. G. & Pickett, K. E. (2007). The problems of relative deprivation: Why some societies do better than others. *Social Science & Medicine*, 65(9), 1965–1978; Wilkinson, R. G. & Pickett, K. E. (2007). Child wellbeing and income inequality in rich societies: ecological cross sectional study. *BMJ*, 335(7629), 1080; Wilkinson, R. G. & Pickett, K. E. (2008). Income inequality and socioeconomic gradients in mortality. *American Journal of Public Health*, 98(4), 699–704; Wilkinson, R. & Pickett, K. (2019). *The Inner Level: How More Equal Societies Reduce Stress, Restore Sanity and Improve Everyone's Well-Being*. Penguin Press: United Kingdom; Chetty, R., Hendren, N., & Katz, L. F. (2016). The Effects of exposure to better neighborhoods on children: New evidence from the moving to opportunity experiment. *American Economic Review*, 106(4), 855–902.
- ⁷¹ Council on Social Work Education. (2016). N Working Definition of Economic Well-Being. Retrieved from <https://www.cswe.org/Centers-Initiatives/Initiatives/Clearinghouse-for-Economic-Well-Being/Working-Definition-of-Economic-Well-Being>
- ⁷² Powell, J. A. (2012). *Racing to Justice: Transforming Our Conceptions of Self and Other to Build an Inclusive Society*. Indiana University Press.
- ⁷³ West, J., Denton, K., and Reaney, L.M. (2001). *The Kindergarten Year* (NCES 2001–023). U.S. Department of Education, NCES. Washington, DC: U.S. Government Printing Office.
- ⁷⁴ Anderson, S., & Leventhal, T. (2017). Residential Mobility and Adolescent Achievement and Behavior: Understanding Timing and Extent of Mobility. *Journal Of Research On Adolescence* 27(2), 328–343. doi:10.1111/jora.12288
- ⁷⁵ Blair, C. & Raver, C. C. (2016). Poverty, stress, and brain development: New directions for prevention and intervention. *Academic Pediatrics*, 16, 3. doi: 10.1016/j.acap.2016.01.010; Jennings, T., Minnici, A., & Yoder, N. (2019). Creating the working conditions to enhance teacher social and emotional well-being. In Osher, D., Mayer, M. J., Jagers, R., Kendziora, K., & Wood, L. (Eds.) (in press). *Keeping Students Safe and Helping Them Thrive: A Collaborative Handbook on School Safety, Mental Health, and Wellness*. Santa Barbara, CA: Praeger/ABC-CLIO. Retrieved from <https://publisher.abc-clio.com/9781440854149/225>
- ⁷⁶ Schilbach, Frank, Heather Schofield, and Sendhil Mullainathan. (2016). The Psychological Lives of the Poor. *American Economic Review*, 106 (5): 435–40. DOI: 10.1257/aer.p20161101; Shah AK, Shafir E, Mullainathan S. (2015). Scarcity frames value. *Psychological Science*, 26(4):402–412. doi:10.1177/0956797614563958
- ⁷⁷ Sampson, Robert J, Jeffrey D Morenoff, and Thomas Gannon-Rowley. (2002). Assessing 'Neighborhood Effects': Social Processes and New Directions in Research. *Annual Review of Sociology* 28: 443–78, Snedker, K. A. & Herting, J. R. (2016). Adolescent mental health: Neighborhood stress and emotional distress. *Youth & Society*, 48.
- ⁷⁸ Blair, C. & Raver, C. C. (2016). Poverty, stress, and brain development: New directions for prevention and intervention. *Academic Pediatrics*, 16, 3. doi: 10.1016/j.acap.2016.01.010; Osher, David & Kendziora, Kimberly & Spier, Elizabeth & Garibaldi, Mark. (2014). *School Influences on Child and Youth Development*. 10.1007/978-1-4899-7424-2_7; Peisner-Feinberg, Ellen & Burchinal, Margaret & Clifford, Richard & Culkin, Mary & Howes, Carolle & Kagan, Sharon & Yazejian, Noreen. (2001). The Relation of Preschool Child-Care Quality to Children's Cognitive and Social Developmental Trajectories through Second Grade. *Child Development*, 72. 1534 - 1553. 10.1111/1467-8624.00364.; Reynolds, A. J., Ou, S.-R., Mondri, C. F., & Giovanelli, A. (2019). Reducing poverty and inequality through preschool-to-third-grade prevention services. *American Psychologist*, 74(6), 653–672. <https://doi.org/10.1037/amp0000537>
- ⁷⁹ Cantor, P., Osher, D., Berg, J., Steyer, L., & Rose, T. (2018). Malleability, plasticity, and individuality: How children learn and develop in context. *Applied Developmental Science*, 23(4), 307–337.
- ⁸⁰ DiMaggio, P. & Garip, F. (2012). Network effects and social inequality. *Annual Review of Sociology*, 38. doi.org/10.1146/annurev.soc.012809.102545; Ginwright, S. A. (2015). Radically healing black lives: A love note to justice. *New Directions for Student Leadership*, 2015(148), 33–44; Ortega-Williams, A., Wernick, L. J., DeBower, J. & Brarhwaite, B. (2018). Finding relief in action: The intersection of you-led community organizing and mental health in Brooklyn, New York City. *Youth & Society*. <https://doi.org/10.1177/0044118X18758542>; Duncan, G., & Brooks-Gunn, J. (Eds.). (1997). *Consequences of Growing Up Poor*. Russell Sage Foundation. Retrieved June 1, 2020, from www.jstor.org/stable/10.7758/9781610448260; McGee, E. & Spencer, B. M. (2015). Black Parents as Advocates, Motivators, and Teachers of Mathematics. *The Journal of Negro Education*, 84(3), 473–490.
- ⁸¹ Ebersöhn, Liesel. (2012). Adding 'Flock' to 'Fight and Flight': A Honeycomb of Resilience Where Supply of Relationships Meets Demand for Support. *Journal of Psychology in Africa*, 22. 10.1080/14330237.2012.10874518.
- ⁸² Rivas-Drake, D., & Marchand, A. (2016). Academic socialization among Latino families: Exploring the complementary role of cultural processes. *Research in Human Development*, 13, 225–240; Wang, Y. & Benner, A. D. (2016). Racial/ethnic discrimination and adolescents' well-being: The Role of cross-ethnic friends and friends' experiences of discrimination. *Child Development*, 88(2), 493–504. doi: 10.1111/cdev.12606
- ⁸³ Miller-Cotto, D., & Byrnes, J. P. (2016). Ethnic/racial identity and academic achievement: A meta-analytic review. *Developmental Review*, 41, 51–70; Neblett, E. W. & Carter, S. E. (2012). The Protective role of racial identity and Africentric worldview in the association between racial discrimination and blood pressure. *Psychosomatic Medicine*, 74(5). doi: 10.1097/PSY.0b013e3182583a50
- ⁸⁴ Osher, D., Cantor, P., Berg, J., Steyer, L., & Rose, T. (2018). Drivers of human development: How relationships and context shape learning and development. *Applied Developmental Science*, 1–31; Rothstein, R. (2004). *Class And Schools: Using Social, Economic, And Educational Reform To Close The Black-White Achievement Gap*. Teachers College Press.

- ⁸⁵ Kendziora, K., & Osher, D. (2016). Promoting children's and adolescents' social and emotional development: District adaptations of a theory of action. *Journal of Clinical Child and Adolescent Psychology*. Special Section: From Adoption to Adaptation. doi: 10.1080/15374416.2016.1197834; Osher, D., & Chasin, E. (2016). Bringing together schools and the community: The case of Say Yes To Education. In J. F. Zaff, E. Pufall Jones, A. E. Donlan, & S. Anderson (Eds.), *Comprehensive community initiatives for positive youth development*. (pp. 72–103). New York, NY: Routledge/Taylor & Francis Group; Spencer, M. B., & Swanson, D. P. (2016). Vulnerability and resiliency of African American youth: Revelations and challenges to theory and research. In D. Cicchetti (Ed.), *Developmental psychopathology: Risk, resilience, and intervention* (Vol. 4, 3rd ed.) (pp. 334–380). Hoboken, NJ: John Wiley & Sons Inc.
- ⁸⁶ Ginwright, S. (2006). Racial justice through resistance: Important dimensions of youth development for African Americans. *National Civic Review*, 95(1), 41–46; Osher, D. (2015). The pedagogy of real talk and the promotion of student well-being and success. In P. Hernandez (Ed.), *The pedagogy of real talk: Engaging, teaching, and connecting with students at risk* (pp. viii–ix). New York, NY: Corwin.
- ⁸⁷ Luthar, S. S., Barkin, S. H., & Crossman, E. J. (2013). "I can, therefore I must": fragility in the upper-middle classes. *Development and psychopathology*, 25(4 Pt 2), 1529–1549. <https://doi.org/10.1017/S0954579413000758>. Ingunn Marie Eriksen (2020) Class, parenting and academic stress in Norway: middle-class youth on parental pressure and mental health, *Discourse: Studies in the Cultural Politics of Education*, DOI: 10.1080/01596306.2020.1716690
- ⁸⁸ National Research Council (2011). *The Science of Adolescent Risk-Taking: Workshop Report*. Washington, DC: The National Academies Press; D. P., & Cox, K. S. (2010). Self and identity across the life span. In M. E. Lamb, A. M. Freund, & R. M. Lerner (Eds.), *The handbook of life-span development, Vol 2: Social and emotional development*. (pp. 158–207). Hoboken, NJ: John Wiley & Sons Inc.; Nagaoka, J., Farrington, C. A., Ehrlich, S. B., & Heath, R. D. (2015). *Foundations for Young Adult Success: A Developmental Framework*. Concept Paper for Research and Practice. University of Chicago Consortium on Chicago School Research
- ⁸⁹ Hoffman, K. (2018). *Concepts of identity: Historical and contemporary images and portraits of self and family*. London: Routledge.; McAdams, D. P., & McLean, K. C. (2013). Narrative identity. *Current Directions in Psychological Science*, 22(3), 233–238; McLean, K. C., & Pratt, M. W. (2006). Life's little (and big) lessons: Identity statuses and meaning-making in the turning point narratives of emerging adults. *Developmental Psychology*, 42(4), 714–722.
- ⁹⁰ Hernández-Saca, D. I., Gutmann Kahn, L., & Cannon, M. A. (2018). Intersectionality dis/ability research: How dis/ability research in education engages intersectionality to uncover the multidimensional construction of dis/abled experiences. *Review of Research in Education*, 42(1), 286–311; Rogers, L. O., Scott, M. A., & Way, N. (2015). Racial and gender identity among Black adolescent males: An intersectionality perspective. *Child Development*, 86(2), 407–424; Spencer, M. B. (2017). Privilege and critical race perspectives' intersectional contributions to a systems theory of human development. *New perspectives on human development*, 258–286.
- ⁹¹ Greenhow, Christine & Askari, Emilia. (2015). Learning and teaching with social network sites: A decade of research in K-12 related education. *Education and Information Technologies*. 10.1007/s10639-015-9446-9; Jones, S., Bailey, R., Brush, K., & Kahn, J. Kernels of practice for SEL: Low-cost, low-burden strategies. Retrieved from <https://www.wallacefoundation.org/knowledge-center/Documents/Kernels-of-Practice-for-SEL.pdf>; Kerpelman, J. L., Pittman, J. F., & Lamke, L. K. (1997). Toward a microprocess perspective on adolescent identity development: An identity control theory approach. *Journal of Adolescent Research*, 12(3), 325–346. <https://doi.org/10.1177/0743554897123002>; Verhoeven, M., Poorthuis, A. M. G., & Volman, M. (2019). The role of school in adolescents' identity development. A literature review. *Educational Psychology Review*, 31(1), 35–63.
- ⁹² Swanson, D. P., Spencer, M. B., Dell'Angelo, T., Harpalani, V., & Spencer, T. R. (2002). Identity processes and the positive youth development of African Americans: An explanatory framework. *New Directions for Youth Development*, 2002(95), 73–99; Verhoeven, M., Poorthuis, A. M. G., & Volman, M. (2019). The role of school in adolescents' identity development. A literature review. *Educational Psychology Review*, 31(1), 35–63.
- ⁹³ Salinger, T. & Osher, D. (2018). Academic interventions—Use with care. In D. Osher, D. Moroney, & S. Williamson (Eds.), *Creating safe, equitable, engaging schools: A comprehensive, evidence-based approach to supporting students*. Cambridge, MA: Harvard Education Press; Steele, D. M., & Cohn-Vargas, B. (2013). *Identity safe classrooms: places to belong and learn*. Thousand Oaks, CA: Corwin; Tennant, J. E., Demaray, M. K., Malecki, C. K., Terry, M. N., Clary, M., & Elzinga, N. (2015). Students' excellence. *Educational Psychologist*, 54(3), 162–184; Rivas-Drake, D., Jagers, R. J., & Martinez, K. J. (2019). *Race, Ethnicity, and Socio-Emotional Health. Keeping Students Safe and Helping Them Thrive: A Collaborative Handbook on School Safety, Mental Health, and Wellness* [2 volumes], 113; Rivas-Drake, D., & Umaña-Taylor Adriana J. (2019). *Below the surface: talking with teens about race, ethnicity, and identity*. Princeton: Princeton University Press.
- ⁹⁴ Harrell-Levy, M. & Kerpelman, J. (2010). Identity Process and Transformative Pedagogy: Teachers as Agents of Identity Formation. *Identity: An International Journal of Theory and Research*, 10, 76–91. 10.1080/15283481003711684.
- ⁹⁵ Crocetti, E., Rubini, M., & Meeus, W. (2008). Capturing the dynamics of identity formation in various ethnic groups: Development and validation of a three-dimensional model. *Journal of Adolescence*, 31, 207–222; Jagers, R. J., Rivas-Drake, D., & Williams, B. (2019). Transformative social and emotional learning (SEL): Toward SEL in service of educational equity and excellence. *Educational Psychologist*, 54(3), 162–184; Rivas-Drake, D., Jagers, R. J., & Martinez, K. J. (2019). *Race, Ethnicity, and Socio-Emotional Health. Keeping Students Safe and Helping Them Thrive: A Collaborative Handbook on School Safety, Mental Health, and Wellness* [2 volumes], 113; Rivas-Drake, D., & Umaña-Taylor Adriana J. (2019). *Below the surface: talking with teens about race, ethnicity, and identity*. Princeton: Princeton University Press.
- ⁹⁶ Umaña-Taylor, A. J., Quintana, S. M., Lee, R. M., Cross, W. E., Rivas, D. D., Schwartz, S. J., ... Seaton, E. (2014). Ethnic and racial identity during adolescence and into young adulthood: An integrated conceptualization. *Child Development*, 85(1), 21–39.

- ⁹⁷ Jagers, R. J., Rivas-Drake, D., & Williams, B. (2019). Transformative social and emotional learning (SEL): Toward SEL in service of educational equity and excellence. *Educational Psychologist*, 54(3), 162-184.; Rivas-Drake, D., Jagers, R. J., & Martinez, K. J. (2019). *Race, Ethnicity, and Socio-Emotional Health. Keeping Students Safe and Helping Them Thrive: A Collaborative Handbook on School Safety, Mental Health, and Wellness* [2 volumes], 113.
- ⁹⁸ Rivas-Drake, D., & Witherspoon, D. (2013). Racial identity from adolescence to young adulthood: Does prior neighborhood experience matter? *Child Development*, 84(6), 1918-1932; Umaña-Taylor, A. J., Quintana, S. M., Lee, R. M., Cross, W. E., Rivas, D. D., Schwartz, S. J., ... Seaton, E. (2014). Ethnic and racial identity during adolescence and into young adulthood: An integrated conceptualization. *Child Development*, 85(1), 21-39.)
- ⁹⁹ Miller-Cotto, D., & Byrnes, J. P. (2016). Ethnic/racial identity and academic achievement: A meta-analytic review. *Developmental Review*, 41, 51-70; Rivas-Drake, D., Seaton, E. K., Markstrom, C., Quintana, S., Syed, M., Lee, R. M., ... Yip, T. (2014). Ethnic and racial identity in adolescence: Implications for psychosocial, academic, and health outcomes. *Child Development*, 85(1), 40-57; Rivas-Drake, D., Syed, M., Umaña-Taylor, A., Markstrom, C., French, S., Schwartz, S. J., & Lee, R. (2014). Feeling good, happy, and proud: A meta-analysis of positive ethnic-racial affect and adjustment. *Child Development*, 85(1), 77-102; Smith, T. B., & Silva, L. (2011). Ethnic identity and personal well-being of people of color: A meta-analysis. *Journal of Counseling Psychology*, 58(1), 42-60.
- ¹⁰⁰ Martela, F. & Steger, M. F. (2016). The three meanings of meaning in life: Distinguishing coherence, purpose, and significance. *Journal of Positive Psychology*, 11(5), 531-545.
- ¹⁰¹ Halama, P., & Dedova, M. (2007). Meaning in life and hope as predictors of positive mental health: Do they explain residual variance not predicted by personality traits? *Studia Psychologica*, 49, 191-200; Kiang, L. & Fuligni, A. J. (2010). Meaning in life as a mediator of ethnic identity and adjustment among adolescents from Latin, Asian, and European American backgrounds. *Journal of Youth and Adolescence*, 39(11): 1253-1264. doi: 10.1007/s10964-009-9475-z
- ¹⁰² Wante, Laura & Van Beveren, Marie-Lotte & Theuwis, Lotte & Braet, Caroline. (2017). The effects of emotion regulation strategies on positive and negative affect in early adolescents. *Cognition & emotion*, 32, 1-15. 10.1080/02699931.2017.1374242; Dulaney, E. S., Graupmann, V., Grant, K. E., Adam, E. K. & Chen, E. (2018). Taking on the stress-depression link: Meaning as a resource in adolescence. *Journal of Adolescence* (65). 10.1016/j.adolescence.2018.02.011;
- ¹⁰³ Burrow, A. L., & Hill, P. L. (2011). Purpose as a form of identity capital for positive youth adjustment. *Developmental Psychology*, 47(4), 1196-1206. Burrow, A. L., Hill, P. L., Ratner, K., & Sumner, R. (2018). A better tomorrow: Toward a stronger science of youth purpose. *Research in Human Development*, 15(2), 167-180. Burrow, A. L., O'Dell, A. C., & Hill, P. L. (2010). Profiles of a developmental asset: Youth purpose as a context for hope and well-being. *Journal of Youth and Adolescence*, 39(11), 1265-1273; Machell, K., Disabato, D., & Kashdan, T. (2016). Buffering the negative impact of poverty on youth: The power of purpose in life. *Social Indicators Research*, 126(2), 845-861.
- ¹⁰⁴ Kim, S., & Esquivel, G. B. (2011). Adolescent spirituality and resilience: Theory, research, and educational Practices. *Psychology in the Schools*, 48(7), 755-765.
- ¹⁰⁵ Saroglou, V. (2011). Believing, bonding, behaving, and belonging: The Big four religious dimensions and cultural variation. *Journal of Cross-Cultural Psychology*. doi.org/10.1177/0022022111412267
- ¹⁰⁶ Barry, C. M., Nelson, L., Davarya, S., & Urry, S. (2010). Religiosity and spirituality during the transition to adulthood. *International Journal of Behavioral Development*, 34(4), 311-324; Kim, S., & Esquivel, G. B. (2011). Adolescent spirituality and resilience: Theory, research, and educational Practices. *Psychology in the Schools*, 48(7), 755-765.
- ¹⁰⁷ CIRCLE. (2011). Understanding a diverse generation: Youth civic engagement in the United States. Retrieved from http://archive.civicyouth.org/wp-content/uploads/2011/11/CIRCLE_cluster_report2010.pdf; Flanagan, C., & Levine, P. (2010). Civic engagement and the transition to adulthood. *The Future of Children*, 20(1), 159-179.
- ¹⁰⁸ Lerner, R. M. (2004). *Liberty: Thriving and civic engagement among America's youth*. Thousand Oaks, CA: Sage Publications, Inc.; Michelsen, E., Zaff, J. F., & Hair, E. C. (2002). Civic engagement programs and youth development: A synthesis. PsycEXTRA Dataset; Sherrod, L. R., & Lauckhardt, J. (2009). The development of citizenship. In R. M. Lerner, & L. Steinberg (Eds.), *Handbook of adolescent psychology* (Vol. 2) (pp. 372-407). Hoboken, NJ: John Wiley & Sons.
- ¹⁰⁹ Mayo, R. & Osher, D. (2018). Engaging students in creating safe, equitable, and excellent schools. In D. Osher, D. Moroney, & S. Williamson (Eds.), *Creating safe, equitable, engaging schools: A comprehensive, evidence-based approach to supporting students*. Cambridge, MA: Harvard Education Press; Noguera, P., Cammarota, J. & Ginwright, J. (2013). *Beyond resistance! Youth activism and community change*. New York, NY: Routledge; Ozer E.J., Ritterman M.L., & Wanis, M.G.. (2010). Participatory action research (PAR) in middle school: opportunities, constraints, and key processes. *Am J Community Psychol*, 46(1-2):152-166. doi:10.1007/s10464-010-9335-8; Richards-Schuster, K. & Dobbie, D. (2011). Tagging Walls and Planting Seeds: Creating Spaces for Youth Civic Action. *Journal of Community Practice*, 19:3, 234-251, DOI: 10.1080/10705422.2011.595283
- ¹¹⁰ Lerner, R. M. (2004). *Liberty: Thriving and civic engagement among America's youth*. Thousand Oaks, CA: Sage Publications, Inc.
- ¹¹¹ Lerner, R. M. (2004). *Liberty: Thriving and civic engagement among America's youth*. Thousand Oaks, CA: Sage Publications, Inc.
- ¹¹² CASEL. (2019). What is SEL? Retrieved from <https://casel.org/what-is-sel/>
- ¹¹³ Osher, D., Cantor, P., Berg, J., Steyer, L., & Rose, T. (2018). Drivers of human development: How relationships and context shape learning and development. *Applied Developmental Science*, doi:10.1080/10888691.2017.1398650

- ¹¹⁴ Bierman, K. L. & Motamedi, M. (2015). Social-emotional programs for preschool children. In J. Durlak, C. Domitrovich, R. P. Weissberg, T. Gullotta, & P. Goren (Eds.), *The handbook of social and emotional learning: Research and practice* (pp. 135-150). New York: Guilford; Domitrovich, C. E., Durlak, J. A., Staley, K. C., & Weissberg, R. P. (2017). Social-emotional competence: An essential factor for promoting positive adjustment and reducing risk in school children. *Child Development*, 88(2), 408-416; Kendziora, K., & Osher, D. (2016). Promoting children's and adolescents' social and emotional development: District adaptations of a theory of action. *Journal of Clinical Child and Adolescent Psychology*. Special Section: From Adoption to Adaptation. doi: 10.1080/15374416.2016.1197834.
- ¹¹⁵ CASEL. (2019). What is SEL? Retrieved from <https://casel.org/what-is-sel/>
- ¹¹⁶ Berg, J., Osher, D., Same, M., Nolan, E., Benson, D., & Jacobs, N. (2017). *Identifying, defining, and measuring social and emotional competencies*. Washington, D.C.: American Institutes for Research; Elias, M. J., Zins, J. E., Weissberg, R. P., Frey, K. S., Greenberg, M. T. et al. (1997). *Promoting social and emotional learning: Guidelines for educators*. Alexandria, VA: Association for Supervision and Curriculum Development; Kidron, Y., & Osher, D. (2012). The history and direction of research about prosocial education. In P. M. Brown, A. Higgins-D'Alessandro, & M. Corrigan (Eds.), *Handbook of prosocial education* (pp. 51-70). Lanham, MD: Rowman & Littlefield; Osher, David & Kidron, Yael & Brackett, M. & Dymnicki, Allison & Jones, S. & Weissberg, Roger. (2016). *Advancing the Science and Practice of Social and Emotional Learning: Looking Back and Moving Forward*, 40, 644-681. 10.3102/0091732X16673595.
- ¹¹⁷ Osher, David & Kidron, Yael & Brackett, M. & Dymnicki, Allison & Jones, S. & Weissberg, Roger. (2016). *Advancing the Science and Practice of Social and Emotional Learning: Looking Back and Moving Forward*. 40.
- ¹¹⁸ Jones, S., Bailey, R., Brush, K., & Kahn, J. (2017). Kernels of practice for SEL: Low-cost, low-burden strategies. Retrieved from <https://www.wallacefoundation.org/knowledge-center/Documents/Kernels-of-Practice-for-SEL.pdf>
- ¹¹⁹ Osher, D., Cantor, P., Berg, J., Steyer, L., & Rose, T. (2018). Drivers of human development: How relationships and context shape learning and development. *Applied Developmental Science*, doi:10.1080/10888691.2017.1398650
- ¹²⁰ Berg, J., Osher, D., Same, M., Nolan, E., Benson, D., & Jacobs, N. (2017). *Identifying, defining, and measuring social and emotional competencies*. Washington, D.C.: American Institutes for Research; Berman, S., Chaffee, S., & Sarmiento, J. (2018). *The practice base for how we learn: Supporting students' social, emotional, and academic development – Consensus statements of practice from the Council of Distinguished Educators*. Washington, DC: National Commission on Social, Emotional, and Academic Development, The Aspen Institute.; Osher, D., & Berg, J. (2017). *School climate and social and emotional learning: The integration of two approaches*. Edna Bennet Pierce Prevention Research Center, Pennsylvania State University.
- ¹²¹ Osher, Guarino, Jones, & Schonfeld. (forthcoming). *The Science of Learning and Development: Realizing the Promise of Every Child*. Taylor Francis.
- ¹²² Kendziora, K., & Osher, D. (2016). Promoting children's and adolescents' social and emotional development: District adaptations of a theory of action. *Journal of Clinical Child and Adolescent Psychology*. Special Section: From Adoption to Adaptation. doi: 10.1080/15374416.2016.1197834; Mehta, J., & Fine., S. (2015). The why, what, where, and how of deeper learning in American secondary schools. *Students at the center: deeper learning research series*. Boston, MA: Jobs for the Future.
- ¹²³ Nogera, P. Darling-Hammond, L. & Friedlaender, D. (2015). *Equal opportunity for deeper learning*. Retrieved from <https://files.eric.ed.gov/fulltext/ED560802.pdf>
- ¹²⁴ Brookhart, S. (2013). *How to Create and Use Rubrics for Formative Assessment and Grading*. ACSD; Tsai, C. C. (2012). The Development of epistemic relativism versus social relativism via online peer assessment, and their relations with epistemological beliefs and Internet self-efficacy. *Educational Technology & Society*, 15(2); Qualifications and Curriculum Authority/Department for Education and Employment (2000). *Curriculum guidance for the foundation stage*. London, UK: DfEE/QCA.
- ¹²⁵ Osher, D. & Young, J. (2020). Bread and Roses Too. Retrieved from <https://equityallianceatasa.org/content/bread-and-roses-too-david-osher>
- ¹²⁶ Ehrlinger, J., & Shain, E. A. (2014). How accuracy in students' self perceptions relates to success in learning. In V. A. Benassi, C. E. Overson, & C. M. Hakala (Eds.), *Applying science of learning in education: Infusing psychological science into the curriculum* (pp. 142-151). Washington, DC: Society for the Teaching of Psychology.
- ¹²⁷ Marcovitch, S., & Zelazo, P. D. (2009). A hierarchical competing systems model of the emergence and early development of executive function. *Developmental Science*, 12(1), 1-18; Müller, U., Liebermann, D., Frye, D., & Zelazo, P. D. (2008). Executive function, school readiness, and school achievement. In S. K. Thurman, & C. A. Fiorello (Eds.), *Applied cognitive research in K-3 classrooms* (pp. 41-83). Routledge.
- ¹²⁸ Bransford et al. (2000). *How people learn: Brain, mind, experience, and school*. National Academy Press.
- ¹²⁹ Clark, Richard. (2009). Antagonism Between Achievement and Enjoyment in ATI Studies. *Educational Psychologist*. 17. 92-101. 10.1080/00461528209529247.; De Corte, E. (2003). Designing learning environments that foster the productive use of acquired knowledge and skills. In De Corte, E., Verschaffel, L., Entwistle, N. and Van Merriënboer, J.J.G. (Eds), *Powerful Learning Environments: Unravelling Basic Components and Dimensions*, Elsevier Science, Oxford, pp. 21-26.
- ¹³⁰ Andersen, C. (2004). Distributed metacognition during peer collaboration. In R. Alterman and D. Kirsh (Eds.), *Proceedings of the twenty-fifth annual conference of the cognitive science society* (pp. 85-90). Boston, Massachusetts: Lawrence Erlbaum Associates; Chiu, M. M., & Kuo, W. S. (2009). From metacognition to social metacognition: Similarities, differences, and learning. *Journal of Educational Research*, 3(4), 1-19.

- ¹³¹ Beattie, V., Collins, B., & McInnes, B. (1997). Deep and surface learning: a simple or simplistic dichotomy? *Accounting Education*, 6(1), 1–12; Czerkawski, B. C. (2014). Designing deeper learning experiences for online instruction. *Journal of Interactive Online Learning*, 13(2), 26–40; Hattie, J. A. C., & Donoghue, G. M. (2016). Learning strategies: a synthesis and conceptual model. *Science of Learning*, 1(1)
- ¹³² Craik, F. I., & Lockhart, R. S. (1972). Levels of processing: A framework for memory research. *Journal of Verbal Learning & Verbal Behavior*, 11(6), 671–684.
- ¹³³ Fullan, M., Quinn, J. & McEachen, J. (2018). *Deeper learning: Engage the world, change the world*. Thousand Oaks, CA: Corwin.
- ¹³⁴ New Pedagogies for Deep Learning. (2019). Homepage. Retrieved from <https://www.npdl.global/>
- ¹³⁵ Tyler, C. P., Geldhof, G. J., Black, K. L., & Bowers, E. P. (2019). Critical reflection and positive youth development among white and black adolescents: Is understanding inequality connected to thriving? *Journal of Youth and Adolescence*.
- ¹³⁶ Moran, S., & John-Steiner, V. (2004). How collaboration in creative work impacts identity and motivation. In D. Miell, & K. Littleton (Eds.). *Collaborative creativity, contemporary perspectives* (pp. 11-25). London: Free Associate Books; Resnick, M. & Robins, K. Lifelong kindergarten. Cambridge: MIT Press.
- ¹³⁷ Cachia, R., Ferrari, A., Ala-Mutka, K. and Punie, Y. (2010). *Creative Learning and Innovative Teaching: Final Report on the Study on Creativity and Innovation in Education in EU Member States*. IPTS Report.; Lai, E. R., & Viering, M. (2012). Assessing 21st century skills: Integrating research findings. Paper Presented at The National Council on Measurement in Education (Vancouver, B.C.); Lucas, B., Claxton, G., & Spencer, E. (2012). Progression in creativity: Developing new forms of assessment. Background Paper for the OECD Conference, Educating for Innovative Societies; Treffinger, D. J., Young, G. C., Selby, E. C., Shepardson, C. (2002). *Assessing creativity: A guide for educators*. National Research Center on the Gifted and Talented.
- ¹³⁸ Immordino-Yang, M. H. (2016). Emotion, sociality, and the brain's default mode network. *Policy Insights from the Behavioral and Brain Sciences*, 3(2), 211–219; Simonton, D. K. (2000). Creativity: Cognitive, personal, developmental, and social aspects. *American Psychologist*, 55(1), 151–158.
- ¹³⁹ Csikszentmihalyi, M. (1996). *Creativity: the work and lives of 91 eminent people*. New York: Harper Collins.; Sternberg, R. J. (1995). Investing in creativity: Many happy returns. *Educational Leadership*, 53(4), 80.
- ¹⁴⁰ Lave, J. (1988). *Cognition in practice: Mind, mathematics and culture in everyday life*. New York, USA: Cambridge University Press; Lave, J. & Wenger, E. (1991). *Situated learning: Legitimate peripheral participation*. New York: Cambridge University Press; Lucas, B., Claxton, G., & Spencer, E. (2012). Progression in creativity: Developing new forms of assessment. Background Paper for the OECD Conference, Educating for Innovative Societies; Osher, D., Cantor, P., Berg, J., Rose, T., & Steyer, L. (2017). *The Science of learning and development*. Washington, DC: American Institutes for Research, Turnaround for Children, The Opportunity Institute, The Learning Policy Institutes, EducationCounsel; Wenger, E. (1998). *Communities of practice: Learning, meaning, and identity*. Cambridge University Press. <https://doi.org/10.1017/CBO9780511803932>
- ¹⁴¹ Lai, E. R., & Viering, M. (2012). Assessing 21st century skills: Integrating research findings. Paper Presented at The National Council on Measurement in Education (Vancouver, B.C.); Sternberg, R. J. (2006). The nature of creativity. *Creativity Research Journal*, 18(1), 87–98.
- ¹⁴² Schrage, M. (1990). *Shared minds: The new technologies of collaboration*. New York: Random House.
- ¹⁴³ Osher, D., Cantor, P., & Caverly, S. (2019). The relational, ecological, and phenomenological foundations of school safety, mental health, wellness, and learning. In Osher, D., Mayer, M. J., Jagers, R. J., Kendziora, K., & Wood, L. (Eds.), *Keeping Students Safe and Helping Them Thrive: A Collaborative Handbook on School Safety, Mental Health, and Wellness*. Santa Barbara, CA: Praeger/ABC-CLIO.
- ¹⁴⁴ Science of Learning and Development Alliance. (2020). *What we've learned*. Retrieved from <https://www.soldalliance.org/what-weve-learned>
- ¹⁴⁵ Pekel, K., Roehlkepartain, E. C., Syvertsen, A. K., Scales, P. C., Sullivan, T. K., & Sethi, J. (2018). Finding the fluoride: Examining how and why developmental relationships are the active ingredient in interventions that work. *American Journal of Orthopsychiatry*, 88(5), 493-502. doi:10.1037/ort0000333 [Download pre-publication version.] Scales, P. C. (2018). Developmental assets and developmental relationships. In M. H. Bornstein (Ed.), *The SAGE Encyclopedia of Lifespan Human Development* (pp. 564-566). Thousand Oaks, CA: Sage. doi:10.4135/9781506307633.n211; Kokkos, A. ed., 2020. *Expanding Transformation Theory: Affinities between Jack Mezirow and Emancipatory Educationalists*. Routledge.
- ¹⁴⁶ Darling-Hammond, L., Flook, L., Cook-Harvey, C., Barron, B. & Osher, D. (2020) Implications for educational practice of the science of learning and development, *Applied Developmental Science*, 24:2, 97-140, DOI: 10.1080/10888691.2018.1537791
- ¹⁴⁷ Darling-Hammond, L., Flook, L., Cook-Harvey, C., Barron, B. & Osher, D. (2020) Implications for educational practice of the science of learning and development, *Applied Developmental Science*, 24:2, 97-140, DOI: 10.1080/10888691.2018.1537791
- ¹⁴⁸ National Academy of Sciences, Engineering, and Medicine. (2019). *The promise of adolescence: Realizing opportunity for all youth*. Retrieved from <https://www.nap.edu/catalog/25388/the-promise-of-adolescence-realizing-opportunity-for-all-youth>
- ¹⁴⁹ Osher, D., Cantor, P., Berg, J., Steyer, L., & Rose, T. (2018). Drivers of human development: How relationships and context shape learning and development. *Applied Developmental Science*, doi:10.1080/10888691.2017.1398650

- ¹⁵⁰ Elliott, S. N. & Bartlett, B. J. (2016) Opportunity to learn. DOI: 10.1093/oxfordhb/9780199935291.013.70; Kurz, A. (2011). Access to what should be taught and will be tested: Students' opportunity to learn the intended curriculum. In S. N. Elliott, R. J. Kettler, P. A. Beddow, & A. Kurz (Eds.), *The handbook of accessible achievement tests for all students: Bridging the gaps between research, practice, and policy*. New York, NY: Springer; Porter, A. C. (2002). Measuring the content of instruction: Uses in research and practice. *Educational Researcher*, 31(7), 3–14.
- ¹⁵¹ Sternberg, R. J. (2006). The nature of creativity. *Creativity Research Journal*, 18(1), 87–98.
- ¹⁵² Osher, David & Kidron, Yael & Brackett, M. & Dymnicki, Allison & Jones, S. & Weissberg, Roger. (2016). *Advancing the Science and Practice of Social and Emotional Learning: Looking Back and Moving Forward*, 40, 644-681. 10.3102/0091732X16673595.
- ¹⁵³ Darling-Hammond, L., Flook, L., Cook-Harvey, C., Barron, B. & Osher, D. (2020). Implications for educational practice of the science of learning and development, *Applied Developmental Science*, 24:2, 97-140, DOI: 10.1080/10888691.2018.1537791
- ¹⁵⁴ Resnick, Lauren & Asterhan, Christa & Clarke, Sherice & Schantz, Faith. (2018). *Next Generation Research in Dialogic Learning*; Zervas, P., Sergis, S., Sampson, D. G., & Fyskilis, S. (2015). Towards competence-based learning design driven remote and virtual labs recommendations for science teachers. *Technology, Knowledge and Learning*, 20(20), 185-199.
- ¹⁵⁵ Darling-Hammond, L., Flook, L., Cook-Harvey, C., Barron, B. & Osher, D. (2020). Implications for educational practice of the science of learning and development, *Applied Developmental Science*, 24:2, 97-140, DOI: 10.1080/10888691.2018.1537791
- ¹⁵⁶ Goodman, J. S., & Wood, R. E. (2004). Feedback Specificity, Learning Opportunities, and Learning. *Journal of Applied Psychology*, 89(5), 809–821. <https://doi.org/10.1037/0021-9010.89.5.809>; Hattie, J. A. C., & Donoghue, G. M. (2016). Learning strategies: a synthesis and conceptual model. *Science of Learning*, 1(1).
- ¹⁵⁷ Drigas, Athanasios & Karyotaki, Maria. (2016). Online and other ICT-based Assessment Tools for Problem-solving Skills. *International Journal of Emerging Technologies in Learning*, 11(56). 10.3991/ijet.v11i04.5339.
- ¹⁵⁸ Fong, Kenneth & Howie, Dorothy. (2007). Metacomponential Assessment and Training in Real-Life Problem Solving. *Journal of Cognitive Education and Psychology*, 6, 165-193. 10.1891/194589507787382151; Sternberg, R. J. (1995). Investing in creativity: Many happy returns. *Educational Leadership*, 53(4), 80.
- ¹⁵⁹ Moran, S., & John-Steiner, V. (2004). How collaboration in creative work impacts identity and motivation. In D. Miell, & K. Littleton (Eds.). *Collaborative creativity, contemporary perspectives* (pp. 11-25). London: Free Associate Books.
- ¹⁶⁰ Astor, R. A. & Benbenishty, R. (2019). *Bullying, School Violence, and Climate in Evolving Contexts: Culture, Organization, and Time*. New York: Oxford University Press; Clifford, M., Menon, R., Gangi, T., Condon, C., & Hornung, K. (2012). *Measuring school climate for gauging principal performance: A review of the validity and reliability of publicly accessible measures*. A Quality School Leadership Issue Brief. Washington, D.C.: American Institutes for Research; Osher, D. & Kendziora, K. (2010). Building conditions for learning and healthy adolescent development. In B. Doll, W. Pfohl, & J. Yoon (Eds.), *Handbook of youth prevention science*. Abingdon: Routledge; Farrington, C.A., Roderick, M., Allensworth, E., Nagaoka, J., Keyes, T.S., Johnson, D.W., & Beechum, N.O. (2012). *Teaching adolescents to become learners. The role of noncognitive factors in shaping school performance: A critical literature review*. Chicago: University of Chicago Consortium on Chicago School Research.
- ¹⁶¹ Cohen, J., Gordon, E., & Kendziora, K. (2019). School safety, wellness, and learning. In D. Osher, M. Mayer, R. J. Jagers, K. Kendziora, & L. Wood. (Eds.), *Keeping students safe and helping them thrive: A collaborative handbook on school safety, mental health, and wellness* (pp. 240-261). Santa Barbara, CA: Praeger.; Osher, D. & Kendziora, K. (2010). Building conditions for learning and healthy adolescent development. In B. Doll, W. Pfohl, & J. Yoon (Eds.), *Handbook of youth prevention science*. Abingdon: Routledge; Osher, D., Moroney, D., & Williamson, S. (2018). *Creating safe, equitable, engaging schools: A comprehensive, evidence-based approach to supporting students*. Harvard Education Press.
- ¹⁶² Flannery, K. B., Fenning, P., Kato, M. M., & McIntosh, K. (2014). Efforts of school wide positive behavioral interventions and supports and fidelity of implementation on problem behavior in high schools. *School Psychology Quarterly*, 29, 111–124. doi:10.1037/spq0000039
- ¹⁶³ Walton, G. M., & Cohen, G. L. (2007). A question of belonging: Race, social fit, and achievement. *Journal of Personality and Social Psychology*, 92(1), 82–96. <https://doi.org/10.1037/0022-3514.92.1.82>
- ¹⁶⁴ Garibaldi, M., Ruddy, S., Kendziora, K., & Osher, D. (2015). Assessment of climate and conditions for learning. In J. A. Durlak, C. E. Domitrovich, R. P. Weissberg, & T. P. Gullotta (Eds.), *Handbook of social and emotional learning: Research and practice* (pp. 348–358). New York, NY: The Guilford Press; Osher, D., Kendziora, K., Spier, E., & Garibaldi, M. L. (2014). School influences on child and youth development. In Z. Sloboda & H. Petras (Eds.), *Advances in prevention science, Vol. 1: Defining prevention science* (pp. 151–170). New York, NY: Springer.
- ¹⁶⁵ Gay, G. (2010). *Culturally Responsive Teaching*. Second Edition. Multicultural Education Series. Teachers College Press.; King, M.A., Sims, A, & Osher, D. (2007). *How is cultural competence integrated in education?* Washington, DC: Center for Effective Collaboration and Practice, American Institutes for Research; Francis, K. & Osher, D. (2018). The Centrality of cultural competence and responsiveness. In Osher, D., Moroney, D., & Williamson, S. (2018). *Creating safe, equitable, engaging schools: A comprehensive, evidence-based approach to supporting students*. Harvard Education Press; Darling-Hammond, L., Flook, L., Cook-Harvey, C., Barron, B. & Osher, D. (2020) Implications for educational practice of the science of learning and development, *Applied Developmental Science*, 24:2, 97-140, DOI: 10.1080/10888691.2018.1537791.

- 166 Kendziora, K., Osher, D., & Chinen, M. (2008). Student connection research: Final narrative report to the Spencer Foundation. Washington, DC: American Institutes for Research.
- 167 Garibaldi, M., Ruddy, S., Kendziora, K., & Osher, D. (2015). Assessment of climate and conditions for learning. In J. A. Durlak, C. E. Domitrovich, R. P. Weissberg, & T. P. Gullotta (Eds.), *Handbook of social and emotional learning: Research and practice* (pp. 348–358). New York, NY: The Guilford Press; Pianta, R. C. & Hamre, B. K. (2009). Conceptualization, measurement, and improvement of classroom processes: Standardized observation can leverage capacity. *Educational Researcher*, 39(109). DOI: 10.3102/0013189X09332374
- 168 Thapa, A., Cohen, J., Guffey, S., & Higgins-D'Alessandro, A. (2013). A review of school climate research. *Review of Educational Research*, 83(3), 357–385.
- 169 Catalano, R. F., Haggerty, K. P., Oesterie, S., Fleming, C. B., & Hawkins, J. D. (2004). The importance of bonding to schools for healthy development: Findings from the social development research group. *The Journal of School Health*, 74, 252–262; McNeely, C. A., Nonnemaker, J. M., & Blum, R. W. (2002). Promoting school connectedness: Evidence from the National Longitudinal Study of Adolescent Health. *Journal of School Health*, 72(4), 138; Osher, D. & Kendziora, K. (2010). Building conditions for learning and healthy adolescent development. In B. Doll, W. Pfohl, & J. Yoon (Eds.), *Handbook of youth prevention science*. Abingdon: Routledge; Shochet, I.M., Dadds, M.R., Ham, D., Montague R. (2006). School connectedness is an underemphasized parameter in adolescent mental health: Results of a community prediction study. *Journal of Clinical Child and Adolescent Psychology*, 35(2):170–179.
- 170 Lester, L., & Cross, D. (2015). The relationship between school climate and mental and emotional well-being over the transition from primary to secondary school. *Psychology of Well-Being*, 5(1); Moore, H., Benbenishty, R., Astor, R. A., & Rice, E. (2018). The positive role of school climate on school victimization, depression, and suicidal ideation among school-attending homeless youth. *Journal of School Violence*, 17(3), 298–310.
- 171 Thapa, A., Cohen, J., Guffey, S., & Higgins-D'Alessandro, A. (2013). A review of school climate research. *Review of Educational Research*, 83(3), 357–385.
- 172 Ambrose, S. A., & Lovett, M. C. (2014). Prior knowledge is more than content: Skills and beliefs also impact learning. In V. A. Benassi, C. E. Overson, & C. M. Hakala (Eds.), *Applying science of learning in education: Infusing psychological science into the curriculum* (p. 7–19). Society for the Teaching of Psychology; Campbell, A. E., Adams, V. M., & Davis, G. E. (2007). Cognitive demands and second-language learners: A framework for analyzing mathematics instructional contexts. *Mathematical Thinking & Learning: An International Journal*, 9(1), 3–30; Clark, R. C., Nguyen, F. and Sweller, J. 2006. *Efficiency in learning: Evidence-based guidelines to manage cognitive load*, San Francisco: Pfeiffer; DeKeyser, R., & Juffs, A. (2005). Cognitive considerations in L2 learning. In E. Hinkel (Ed.), *Handbook of research in second language teaching and learning*. Mahwah, NJ: L. Erlbaum Associates.
- 173 Oyserman, D., Bybee, D., & Terry, K. (2006). Possible selves and academic outcomes: How and when possible selves impel action. *Journal of Personality and Social Psychology*, 91(1), 188–204; Oyserman, D., & Fryberg, S. (2006). The possible selves of diverse adolescents: Content and function across gender, race and national origin. In C. Dunkel, & J. Kerpelman, *Possible selves: Theory, research and application* (pp. 17-39). New York, NY: Nova Science Publishers.
- 174 Valenzuela, A. (1999). *Subtractive schooling: U.S.-Mexican youth and the politics of caring*. New York: State University of New York Press.
- 175 Aronson, B., & Laughter, J. (2016). The theory and practice of culturally relevant education: A synthesis of research across content areas. *Review of Educational Research*, 86, 163–205. doi:10.3102/0034654315582066; Paris, D. & Alim, H. S. (2017). *Culturally Sustaining Pedagogies: Teaching and Learning for Justice in a Changing World*. New York, NY: Teachers College Press; Sapp, J. & Cohen, C. (2019). *Let's Make a Better World: Stories and Songs by Jane Sapp*. Chicago: University of Chicago Press; Rivera, K. & Arauz, S. (2019). Understanding and practicing cultural competence in helping youth thrive. In Osher, D., Mayer, M. J., Jagers, R. J., Kendziora, K., & Wood, L. Keeping students safe and helping them thrive: A collaborative handbook on school safety, mental health, and wellness. Santa Barbara, CA: Praeger
- 176 Darling-Hammond, L., Flook, L., Cook-Harvey, C., Barron, B. & Osher, D. (2020). Implications for educational practice of the science of learning and development, *Applied Developmental Science*, 24:2, 97-140, DOI: 10.1080/10888691.2018.1537791; Lee, C. D., Spencer, M. B., & Harpalani, V. (2003). "Every shut eye ain't sleep": Studying how people live culturally. *Educational Researcher*, 32(5), 6–13.
- 177 Science of Learning and Development Alliance. (2020). *What we've learned*. Retrieved from <https://www.soldalliance.org/what-weve-learned>
- 178 Artiles, A. J., Kozleski, E. B., Trent, S. C., Osher, D., & Ortiz, A. (2010). Justifying and explaining disproportionality, 1968-2008: A critique of underlying views of culture. *Exceptional Children*, 76(3), 279–299.
- 179 Lane, R.D., Nadel, L., & Ahern, G. (Eds.). (2000). *Cognitive Neuroscience of Emotion*. New York: Oxford University Press; Solórzano, D., Ceja, M., & Yosso, T. (2000). Critical race theory, racial microaggressions, and campus racial climate: The experiences of African American college students. *Journal of Negro Education*, 69(1–2), 60–73; Spencer, M. B., Fegley, S., & Dupree, D. (2006). Investigating and linking social conditions of minority children and adolescents with emotional well-being. *Ethnicity & Disease*, 16, S3–67–S3–70; Zajonc, R. B., & Markus, H. (1984). Affect and cognition: The hard interface. In C. E. Izard, J. Kagan, & R. B. Zajonc (Eds.), *Emotions, Cognition, & Behavior* (pp. 73-102). Cambridge: Cambridge University Press.

- ¹⁸⁰ Brondolo E, Rieppi R, Erickson SA, Bagiella E, Shapiro PA, McKinley P, et al. (2003). Hostility, interpersonal interactions, and ambulatory blood pressure. *Psychosomatic Medicine*, 65, 1003–1011; Pennington, C. R., Heim, D., Levy, A. R., & Larkin, D. T. (2016). Twenty years of stereotype threat research: A review of psychological mediators. *PLoS ONE*, 11(1), 1–25; Sue, D. W., Capodilupo, C. M., Torino, G. C., Bucceri, J. M., Holder, A. M. B., Nadal, K. L., & Esquilin, M. (2007). Racial microaggressions in everyday life: Implications for clinical practice. *American Psychologist*, 62(4), 271–286. <https://doi.org/10.1037/0003-066X.62.4.271>
- ¹⁸¹ Appel, M., Weber, S., & Kronberger, N. (2015). The influence of stereotype threat on immigrants: Review and meta-analysis. *Frontiers in Psychology*, 6; Johns, M., Inzlicht, M., & Schmader, T. (2008). Stereotype threat and executive resource depletion: Examining the influence of emotion regulation. *Journal of Experimental Psychology: General*, 137(4), 691–705; Pennington, C. R., Heim, D., Levy, A. R., & Larkin, D. T. (2016). Twenty years of stereotype threat research: A review of psychological mediators. *PLoS ONE*, 11(1), 1–25; Steele, D. M., & Cohn-Vargas, B. (2013). *Identity safe classrooms: places to belong and learn*. Thousand Oaks, CA: Corwin; Szymanski, D. M., Kashubeck-West, S., & Meyer, J. (2008). Internalized heterosexism: A historical and theoretical overview. *Counseling Psychologist*, 36(4), 510–524.
- ¹⁸² LeBrón, A.M.W., Schulz, A.J., Mentz, G., White-Perkins, D. (2015) John Henryism, Socioeconomic Position, and Blood Pressure in a Multi-Ethnic Urban Community. *Ethnicity & Disease*; 25(1): 24-30; Smith, W. A., Hung, M., & Franklin, J. D. (2011). Racial battle fatigue and the miseducation of black men: Racial microaggressions, societal problems, and environmental Stress. *Journal of Negro Education*, 80(1), 63–82.
- ¹⁸³ Gambone, M.A., Klem, A.M. & Connell, J.P. (2002). Finding Out What Matters for Youth: Testing Key Links in a Community Action Framework for Youth Development. Philadelphia: Youth Development Strategies, Inc., and Institute for Research and Reform in Education.
- ¹⁸⁴ California Department of Education. (2020). Stronger together: Expanded learning. Retrieved from <https://www.cde.ca.gov/ls/he/hn/sandtinstexplearning.asp>
- ¹⁸⁵ Bronfenbrenner, U. (1979). *The Ecology of Human Development: Experiments by Nature and Design*. Cambridge, Massachusetts: Harvard University Press.

