The Evidence Base for How We Learn
Supporting Students’ Social, Emotional, and Academic Development

Consensus Statements of Evidence
From the Council of Distinguished Scientists

National Commission on Social, Emotional, and Academic Development
The Aspen Institute

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FOREWORD

On the pages that follow, a broad alliance of leading scientists and scholars speaks with a unified voice about the urgency of integrating social, emotional, and academic dimensions of learning to improve student outcomes.

Under the aegis of the National Commission on Social, Emotional, and Academic Development, the 28-member Council of Distinguished Scientists actively collaborated on and unanimously endorses The Evidence Base for How We Learn: Supporting Students’ Social, Emotional, and Academic Development. These consensus statements of evidence—drawing from brain science, medicine, economics, psychology, and education research—unite the country’s leading scholars of learning in calling for the full integration of social and emotional learning with academic instruction.

The Consensus Statements of Evidence affirm and explain that social, emotional, and cognitive domains are interconnected in the learning process. This powerful consensus presents a compelling case for policymakers and educators to confidently move forward in addressing social and emotional dimensions of learning as part and parcel of achieving excellent academic outcomes in K-12 education.

The consensus statements and the research behind them are summarized in this brief, written by Stephanie M. Jones and Jennifer Kahn with the active participation of the entire Council of Distinguished Scientists.

The Aspen Institute is grateful to the scientists who came together to align their broad expertise in the public interest. Without their thoughtful contributions, dedicated efforts, and earnest deliberations, this step forward on behalf of our nation’s students and schools would not be possible.

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THE OPPORTUNITY

Compelling research demonstrates what parents have always known—the success of young people in school and beyond is inextricably linked to healthy social and emotional development. Students who have a sense of belonging and purpose, who can work well with classmates and peers to solve problems, who can plan and set goals, and who can persevere through challenges—in addition to being literate, numerate, and versed in scientific concepts and ideas—are more likely to maximize their opportunities and reach their full potential. Educators, too, understand the benefits of educating the whole child, and have been calling for more support and fewer barriers in making this vision a reality. Similarly, employers recognize that social and emotional development, along with content knowledge, is crucial to preparing the future workforce with the life skills employers increasingly need and value.¹

Given the substantial amount of time children spend in them, schools are an important and powerful influence, for good or ill, on children’s development in all areas. They are a critical context in which to intentionally and productively cultivate social and emotional development. While many schools and districts are pursuing this work, their success so far has been impeded by education policies—and practices in some schools—that are predicated on a narrow vision of student success. Fortunately, the federal Every Student Succeeds Act, as well as growing efforts at the state and local levels to make social and emotional development a priority, are beginning to change the landscape. This convergence of advances in research, support from the education and business communities, and policy momentum creates a rare window of opportunity.

LEARNING IS SOCIAL AND EMOTIONAL

Decades of research in human development, cognitive and behavioral neuroscience, and educational practice and policy, as well as other fields, have illuminated that major domains of human development—social, emotional, cognitive, linguistic, academic—are deeply intertwined in the brain and in behavior. All are central to learning. Strengths or weaknesses in one area foster or impede development in others; each carries aspects of the other. For example, social development has critical cognitive elements that govern the processing of information from the social world and drive the attributions that are made. Cognition and emotion work in tandem; a core skill like self-control includes a cognitive-inhibition component that is easier or harder to deploy depending on the emotions of the individual and the situation.

In this brief, we recognize the deep connections among these areas and the importance of each one, but we focus in particular on the body of evidence that highlights a set of skills and

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Major domains of human development—social, emotional, cognitive, linguistic, academic—are deeply intertwined in the brain and in behavior, and all are central to learning.
Social and emotional development is multi-faceted and integral to academics—to how school happens, and to how learning takes place.

reflecting the intertwined nature of development described above, there are at least a dozen specific social and emotional skills that are clearly linked to school and life success and are relevant for both students and the adults who teach and care for them.

These skills can be grouped into three interconnected domains: (1) cognitive skills including executive functions such as working memory, attention control and flexibility, inhibition, and planning, as well as beliefs and attitudes that guide one's sense of self and approaches to learning and growth; (2) emotional competencies that enable one to cope with frustration, recognize and manage emotions, and understand others' emotions and perspectives; and (3) social and interpersonal skills that enable one to read social cues, navigate social situations, resolve interpersonal conflicts, cooperate with others and work effectively in a team, and demonstrate compassion and empathy toward others.

Drawing on evidence from a range of disciplines and perspectives, it is clear that social and emotional skills and competencies develop in a complex system of contexts, interactions, and relationships. Therefore, it is important for organizations to take a systems approach
to promoting development in these areas—addressing adult skills and beliefs; organizational culture, climate, and norms; and routines and structures that guide basic interactions and instruction. As described in greater detail below, such approaches are most effective when designed to match the needs and contexts of specific organizations and communities.

NATIONAL COMMISSION’S COUNCIL OF DISTINGUISHED SCIENTISTS

Seizing on momentum from a shift in policy, advances in research, and growing public support for a well-rounded education, and with the view that it is critical to ground educational policy and practice in rigorous developmental science, the Aspen Institute’s National Commission on Social, Emotional, and Academic Development is advancing a new vision for what constitutes success in schools. This vision calls for the full integration of social, emotional, and academic development to ensure every student is prepared to thrive in school and in life. By uniting a broad alliance of leaders to speak with a unified voice about the urgency of integrating social and emotional development into the fabric of K-12 education, the Commission is uniquely positioned to highlight critical scholarship at a time when there has been a proliferation of interest.

To inform this critical element of its work, the Commission has convened the Council of Distinguished Scientists, an extraordinary group of scientists, researchers, and academics, to highlight and build on the powerful evidence that establishes the foundational nature of social and emotional competencies as essential to all learning. By uniting research leaders across disparate but kindred fields—including character and ethical education, deeper learning, emotional intelligence, health and mental-health promotion, primary prevention, neuroscience, social and emotional learning, adversity science, mindsets, mindfulness, prosocial education, positive psychology, resilience, child-centered education, learning science, positive youth development, civic education, school climate and education of the whole child—the Council developed a consensus view on what research says about integrating social, emotional, and academic development.

The Consensus Statements of Evidence are grounded in scientific research that moves the nation beyond the debate as to whether schools should attend to students' social and emotional development, to how we can integrate social, emotional, and academic development into the mission and daily work of all schools. The Consensus Statements affirm the interconnectedness of the social, emotional, and cognitive domains as the way in which all students learn. As a consensus view, developed and agreed upon by leading researchers across the country, these statements make a compelling case for policymakers and educators to confidently move forward to support social and emotional development in a manner integrated with academic instruction in K-12 education. Critically for the Commission, these Consensus Statements elevate and celebrate important research that establishes an array of positive student and societal outcomes. They provide an evidence base that can align the field and that the research community can build upon. While each of these statements is true, they are meant to be considered as a totality.
CONSENSUS STATEMENTS OF EVIDENCE

SOCIAL, EMOTIONAL, AND ACADEMIC DEVELOPMENT MATTERS

Social, emotional and cognitive competencies develop throughout our lives and are essential to success in our schools, workplaces, homes, and communities and allow individuals to contribute meaningfully to society.

There is a substantial and rigorous body of evidence showing that students learn more and classrooms are more effective when children and adolescents have the skills and competencies to manage emotions, focus their attention, successfully navigate relationships with peers and adults, persist in the face of difficulty, learn from and apply academic content, and problem solve. Interest in this area is high, and with good reason: There is now a strong body of evidence from large-scale experimental studies showing that high-quality preschool and school-based programming focused on social and emotional development make a positive difference for children’s academic achievement and behavior. Moreover, during the past thirty years, demand in the labor market for individuals who possess this body of skills has increased.

To date we’ve learned that, in addition to broad improvements in social, behavioral, and mental health outcomes, programming in social and emotional learning across the school years drives increases in executive functioning, self-efficacy, persistence, prosocial behavior, grades, and scores on standardized tests. Children with stronger social and emotional competencies are also more likely to enter and graduate from college, succeed in their careers, have positive work and family relationships, better mental and physical health, reduced criminal behavior, and to become engaged citizens.

Social, emotional, and cognitive capabilities are fundamentally intertwined—they are interdependent in their development, experience, and use.

As noted above, research in human development establishes that social, emotional, and cognitive development are deeply intertwined and together are integral to academic learning and success. Indeed, many social, emotional, and cognitive capacities are processed in the same parts of the brain, and this plays out in behavior when, for example, fear impedes our ability to process information. Studies of effective early childhood and school environments confirm that academic skills in the first years of schooling are entwined with the ability to regulate emotions and behavior and to engage in positive social interactions with peers and adults, and that academic behaviors in the later years (e.g., attendance) are closely tied to students’ social, emotional, and behavioral functioning. We also know that classroom instruction and academic activities that connect rigorous cognitive challenges with social interaction or that spark students’ emotions result in deeper, longer-term learning. In practice, efforts that approach these domains from a lens
of integration—addressing social, emotional, and academic development together—are likely to be the most effective and sustainable.xv

**Engaging in effective social and emotional learning-informed programs and practices can improve teacher effectiveness and well-being.**

In addition to individual student outcomes, attention to social and emotional development leads to safe, well-functioning schools and classrooms characterized by supportive culture and climate, positive relationships, effective classroom management, deeper learning, and reduced behavioral problems.xvi Indeed, not only is there compelling evidence that a focus on social and emotional skills is central to effective classroom management,xvii there is promising evidence that discipline policies in schools that adopt and act on core principles of social and emotional learning can shift race and gender disparities in the application of punitive discipline practices.xviii Moreover, there is now a small, but growing, body of evidence suggesting that interventions addressing teacher-specific social and emotional competencies result in improvements in a variety of indicators of teacher well-being including reductions in stress and burnout,xix which can reduce rates of teacher and administrator turnover.xx Teachers also report greater job satisfaction when their students are more engaged and successful, and we know that student motivation and engagement is closely linked to experiences with instructional content and approaches that reflect students’ social and emotional worlds.xxi

### SOCIAL AND EMOTIONAL SKILLS ARE MALLEABLE

Social, emotional, and cognitive competencies can be taught and developed throughout childhood, adolescence, and beyond.

Social, emotional, and cognitive skills are not predetermined by one’s genetic blueprint. Rather, our genes interact with experience so that these skills emerge, grow, and change over time, beginning in the earliest years and continuing throughout childhood and adolescence. Indeed, there is some evidence to suggest that social and emotional learning skills are malleable over long periods of development, whereas some core cognitive skills become less so as children get older.xxi Although more research is needed in this area, two important developmental principles are at play. First, some skills act as building blocks, serving as a foundation for more complex skills that emerge later in life. For example, regulating and managing one’s emotions is fundamental to resolving complex social conflicts, and identifying basic emotions in oneself is essential to being able to regulate them effectively. This suggests that children must develop certain basic social, emotional, and cognitive competencies before they can master others.

Second, emerging research suggests there is a developmental progression regarding when some skills are more salient than others, enabling children and youth to meet the demands of a particular developmental stage and/or setting, or successfully navigate a major transition from one developmental context to another (e.g., from

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**Evidence shows that high-quality programming focused on SEL makes a positive difference for children’s academic achievement and behavior.**

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benefits for an average of 3.75 years following participation, indicating the long-term benefits of SEL interventions. Furthermore, interventions were beneficial across populations, regardless of race/ethnic or socio-economic background. Other approaches to intervention that emphasize one aspect or domain of social, emotional, and cognitive skills—those focused on executive functions, mindfulness, or growth mindsets, for example—have also been shown through rigorous evaluations to be effective.

**SCHOOLS PLAY A CENTRAL ROLE IN SOCIAL, EMOTIONAL, AND ACADEMIC DEVELOPMENT**

Schools can have a significant influence on social, emotional, and academic development. The wider community (families, community institutions, etc.) must be engaged to enhance the strength, depth, and pace of acquisition of these competencies.

Contexts and experiences can be shaped in ways that positively affect children’s social and emotional learning and their academic and life outcomes, and there are programs and practices that have been proven to be effective at improving social and emotional development.

Social and emotional skills can be intentionally cultivated with high-quality practices, programs, and interventions in both school and out-of-school settings. For example, in their seminal review of more than 200 school-based, universal social and emotional learning programs spanning grades K-12, Durlak and colleagues (2011) demonstrated that students who participated in evidence-based social and emotional learning (SEL) programs showed significant improvements in social and emotional learning skills, behavior, attitudes, and academic performance, as well as reduced emotional distress and conduct problems. Results from this study also indicated that programs were most effective when they employed evidence-based skills-training practices. Specifically, these programs conformed to the acronym SAFE, meaning they: included sequenced activities to teach skills, actively engaged students in learning skills, focused time on SEL skill development, and explicitly targeted SEL skills. A follow-up study revealed that participants continued to demonstrate positive benefits for an average of 3.75 years following participation, indicating the long-term benefits of SEL interventions. Furthermore, interventions were beneficial across populations, regardless of race/ethnic or socio-economic background. Other approaches to intervention that emphasize one aspect or domain of social, emotional, and cognitive skills—those focused on executive functions, mindfulness, or growth mindsets, for example—have also been shown through rigorous evaluations to be effective.

Social, emotional, and academic development is an essential part of pre-K-12 education that can transform schools into places that foster academic excellence, collaboration and communication, creativity and innovation, empathy and respect, civic engagement, and other skills and dispositions needed for success in the 21st Century.
Integrating a focus on social and emotional development into the structures and practices of schools and schooling is a path to creating safe, supportive school environments that are conducive to learning. One of the most enduring, repeated, and substantial effects of SEL and related interventions (e.g., those focused on executive function or self-regulation, for example) are change in the culture and climate of classrooms, including organizational, instructional, and behavior management practices. It is clear that such interventions not only shape individual outcomes, but also broader, setting-level outcomes tied to a range of important school experiences.

Students with strong social and emotional skills are also more likely to initiate and sustain positive relationships with peers and adults, participate in classroom activities, and engage in learning. In addition, classrooms characterized by warm and engaging teacher-student relationships promote deeper learning among students: Children who feel comfortable with their teachers and peers are more willing to grapple with challenging material and persist at difficult learning tasks. Curriculum and instructional practices that deliberately integrate or interweave academic content with social and emotional themes and/or skills are likely to be the most sustainable and effective. There are a growing number of examples of such practices in the field.

**Effective implementation is necessary to improve outcomes and for all children to benefit.**

A growing body of research highlights the importance of effective implementation of social and emotional learning and related interventions and strategies. Evidence indicates that high-quality implementation is positively associated with better student outcomes. Schools and other settings that merely give “lip service” to social and emotional learning, but do not have clear and consistent programs or strategies, will not show commensurate outcomes for students. Monitoring implementation is essential for program impact and for providing valuable guidance in terms of continuous program improvement. A focus on implementation advances research, practice, and educational policy because it can lead to better decision making and better services for students.

Conditions for effective implementation are known. For example, social and emotional learning should be developmentally and culturally aligned to the needs of students and integrated across settings, including the school, home, and community. Students are more likely to benefit when social and emotional learning are embedded in everyday interactions and school culture, as reflected by collaborative efforts among adults and attention to places beyond the classroom, such as hallways and bathrooms. For skill-building in these areas to permeate across settings, students need continuous, consistent opportunities to build and practice these skills, which means that adults must agree on consistent practices across classrooms and other school contexts.

**For social, emotional, and academic development to thrive in schools, teachers and administrators need training and support to understand and model these skills, behaviors, knowledge, and beliefs.**

Students are more likely to benefit from social and emotional learning when staff receive training, and the program or strategy is implemented well and embedded in everyday teaching and learning. However, today's teachers typically receive little training (either pre-service or in-service) on how to promote these skills, or deal with peer conflict or social and emotional development overall. As a result, teachers report limited confidence in their ability to respond to student behavioral needs and, in turn, to support students' social and emotional development. When teachers receive training in specific evidence-based programs or strategies that affect teaching and learning in the classroom, they feel better equipped to propose and implement positive, active classroom management.
FOCUSING ON SOCIAL AND EMOTIONAL DEVELOPMENT IS WORTH IT

Supporting social, emotional, and academic development is a wise use of public resources, because there can be long-term social and economic benefits to society when schools implement and embed evidence-based programs that promote social and emotional as well as cognitive development.

As described above, the integration of social, emotional, and academic development is imperative to effective learning environments and for adequately preparing children and youth for success in today’s world. It is becoming even clearer that this integrated set of competencies is essential for the increasingly complex, global, and rapidly changing environment in which our students will function as adults. The impact of development in these areas reaches far beyond individual or school success. Making social and emotional development a priority has significant benefits for the well-being of our society, including implications for public health and economic growth.

Relatively low-cost SEL and related interventions can deliver substantial returns on investment. For example, a benefit-cost analysis of prominent SEL interventions revealed a positive return on investment averaging a yield of $11 in long-term benefits over a range of outcomes for every $1 invested. Evidence from national and international settings indicates that individuals with higher social and emotional competencies tend to have higher labor market earnings. Research and theory also suggest that these skills are likely to lead to gains in labor productivity, which include increased long-term employment and taxable earnings. Similarly, reductions in violence, drug use, delinquent behavior, and mental health problems—as a result of stronger social and emotional skills and competencies—are likely to

strategies that deter students’ aggressive behaviors and promote a positive classroom learning climate. In addition, teachers who have knowledge about child and adolescent development are better able to design and carry out learning experiences in ways that support students’ social, emotional, and academic competencies, and enhance student outcomes. Ultimately, training should be embedded in educators’ pre-service and in-service experiences, and administrative and supervisory support should be integrated in ongoing ways.

In addition to training and support dedicated to developing students’ social and emotional skills, teachers need support in building their own skills in these areas. It is difficult for adults to help students build these skills if they themselves do not possess them. Research indicates that teachers with stronger social and emotional skills have more positive relationships with students, engage in more effective classroom management, and implement their students’ social and emotional programming more effectively. Critically, not only teachers, but district administrators, principals and other school staff need professional training and support in social and emotional development and related practices. Some evidence suggests that when principals and teachers who attempt to implement strategies and practices tied to social and emotional learning are well supported by their district leadership, they have better outcomes. Indeed, school and district leaders are a linchpin to high-quality implementation.

A benefit-cost analysis of SEL interventions revealed a positive return on investment averaging $11 in long-term benefits for every $1 invested.
lead to decreased need for government services, and ultimately, less expenditure of public money.\textsuperscript{vi}

Building social and emotional skills and competencies also has important value from a public-health perspective. Universal school-based programs focused on these skills have the capacity to influence short- and long-term physical and mental health outcomes for all children. By facilitating the development of skills such as how to manage emotions, such interventions can serve as important protective factors and change the way individuals adapt to their environment and respond to stress.\textsuperscript{vii} A longitudinal study following more than 1,000 children found that early self-control predicted a range of long-term outcomes, including better physical health and personal finances, and lower substance dependence and criminal activity.\textsuperscript{viii} Likewise, the inability to cope effectively with stress or regulate one’s emotions is associated with numerous diseases that influence the physiological response system.\textsuperscript{ix} This is particularly relevant for children exposed to chronic stress often associated with poverty, violence, and substance abuse, conditions that have long-lasting consequences for learning, behavior, and general physical and mental well-being.\textsuperscript{ix}

**All students, regardless of their background, benefit from positive social and emotional development. At the same time, building, nurturing, and integrating social, emotional, and academic development in pre-K-12 can be a part of achieving a more equitable society.**

Taken together, it is clear that supporting positive social, emotional, and academic development is highly valuable for the success and well-being of individuals, schools, and society at large. Importantly, this work has the potential to influence outcomes for everyone, driving change towards a more equitable society overall. Interventions designed to build social and emotional skills have been shown to be effective for all children and youth, regardless of geographical setting (e.g., urban, suburban, rural) or socio-demographic background.\textsuperscript{x} We do know that children exposed to adversity, trauma, and stress are particularly susceptible to challenges in these areas,\textsuperscript{x} and that those with different geographic, socioeconomic, gender, and racial/ethnic backgrounds can experience the same environment differently. Importantly, this work is especially relevant for supporting low-income or at-risk students, providing them with a set of skills that can buffer exposure to adverse experiences or difficulty in school.\textsuperscript{xi} These issues are very complex, and supporting children and adults to cope with or manage systemic and enduring inequities is not a sustainable pathway to a more equitable society. However, focusing on social, emotional, and academic development can contribute to an important shift toward a society where all children and youth can learn and succeed.

**CONCLUSION**

Integrating social and emotional development with academic instruction is foundational to the success of our young people, and therefore to the success of our education system and society at large. All children deserve the opportunity to learn the skills they need to succeed as individuals and as contributing, engaged citizens. With these guiding principles and the collective expertise and influence of the National Commission’s Council of Distinguished Scientists, we are well positioned to bring about meaningful and sustainable change, placing the integration of social, emotional, and academic development at the forefront of education practice and policy.
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