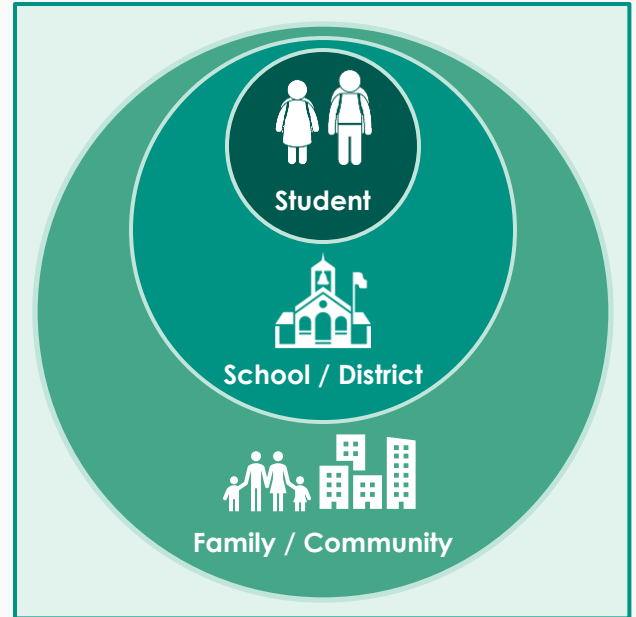


# FACTORS INFLUENCING STUDENT LEARNING

## SCHOOL-BASED VS. OUT-OF-SCHOOL FACTORS

The factors influencing students' achievement and educational outcomes are multifaceted, complex, and interconnected. Students' personal attributes and aptitudes, their social interactions with peers, teachers, and their families, and larger familial and societal structures (e.g., socioeconomic status, school quality, community problems) all impact student learning to varying degrees.<sup>1</sup> For example, risk factors associated with students' families—such as poverty, familial conflict, or poor parental supervision—and with the community-at-large—such as crime, violence, or limited public resources—can adversely impact student learning. Comparatively, school-based protective factors like effective teachers and the provision of academic, social, and emotional supports can positively impact student learning.<sup>2</sup>

### Levels of Student Achievement Factors



Source: South Dakota State University<sup>3</sup>

**Factors influencing student learning fall into two categories: school-based factors and out-of-school factors.** School-based factors are those within the school's or district's nexus of control (e.g., curriculum design, instructional practices, teacher quality), whereas out-of-school factors are those which the school or district has limited or no control over (e.g., family income, parenting style, crime rates).<sup>4</sup> Both protective and risk factors can be present within school-based and out-of-school contexts. Awareness of the distinctions between these categories and knowledge of how to promote protective factors and mitigate the impacts of risk factors are important assets for PK-12 educators, from district superintendents to teachers to operations staff members.<sup>5</sup> Research identifies over 250 distinct factors or activities that influence student achievement, with a full listing available [here](#).<sup>6</sup>

### Sample of School-Based and Out-of-School Factors Impacting Student Learning

#### SCHOOL-BASED FACTORS

#### OUT-OF-SCHOOL FACTORS

SCHOOL-BASED FACTORS		OUT-OF-SCHOOL FACTORS		
Teacher Quality	Academic Setting	Students	Home/Family	Community
Professional Development	Curriculum Implementation	Disability Status	Socioeconomic Status	Crime
Instructional Practices	Instructional Resources	First Language	Parent-Child Relationships	Community Infrastructure
Teacher Expectations	School Climate	Physical and Mental Health	Parents' Educational Attainment	Population Demographics
Cultural Responsiveness	Multi-Tiered Systems of Support (MTSS)	Developmental Differences	Household Status	Inequality

Source: Multiple<sup>7</sup>

### Determinants of Achievement Which Can Be Influenced by Schools



### WHICH FACTORS ARE MOST IMPACTFUL?

Often, educators and the general public believe that teachers are the single most important influence on student achievement. However, **research findings qualify that teachers are the most impactful school-based factor, but not the most important factor overall.** Several out-of-school factors "exert more influence overall on student achievement than any factors inside the school."<sup>8</sup> Opportunity gaps resulting from out-of-school factors—such as those caused by racial inequality, limited socioeconomic opportunities, and disparities in parents' educational attainment—can create tremendous barriers to students' learning.<sup>9</sup>

Some research indicates that, relative to school-based factors such as teachers, out-of-school factors can have impacts four to eight times in magnitude.<sup>10</sup> Specifically, research finds that **most variations in student achievement outcomes are the result of individual student characteristics and aspects of family background such as socioeconomic status, race, and parents' level of educational attainment.**<sup>11</sup> Many teachers also recognize that poverty, familial sources of stress, and additional out-of-school factors represent major barriers to student success.<sup>12</sup> Despite the prevalence of out-of-school factors' influence on student learning, education policy discussions and district and school actions often emphasize improvements to teacher quality and their ability to design strong curricula and deliver effective

Source: Multiple<sup>13</sup>

instruction, with the recognition that educators may only be able to, at best, exert peripheral control over many out-of-school factors.<sup>14</sup>

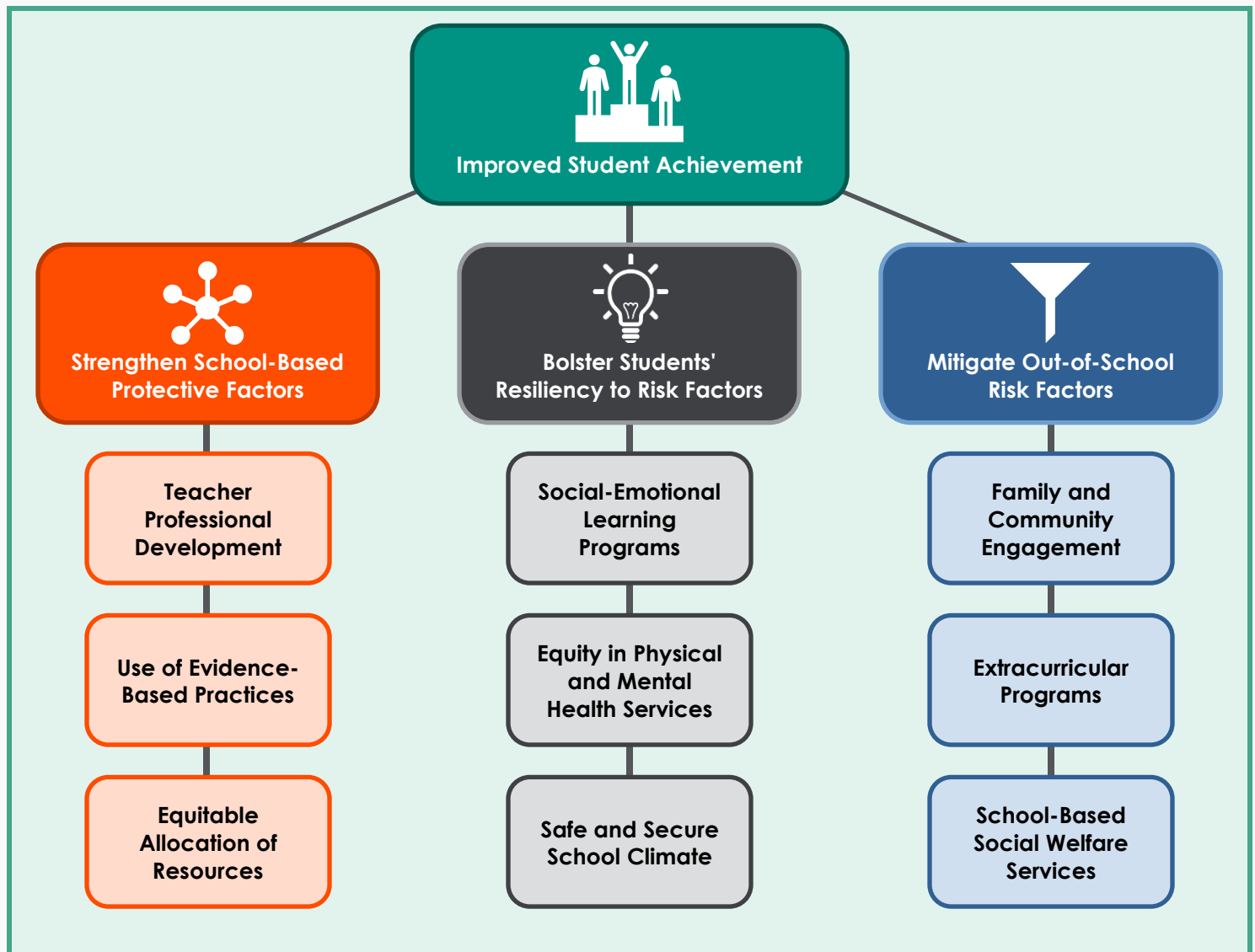
**Districts and schools—while doing their best to mitigate the effect of out-of-school risk factors—should promote improvements to teacher quality including their ability to utilize evidence-based best practices.**<sup>15</sup> Because teaching is the most effective factor impacting student learning upon which districts and schools can exert direct control, quality teaching practices should be at the core of all educational operations.<sup>16</sup> Indeed, research estimates that teachers "have two to three times the impact of any other school factor, including services, facilities, and even leadership."<sup>17</sup>

Moreover, educators should not discount their ability to assist students. While students' achievement may be adversely impacted by out-of-school risk factors, school-based factors can offset some of these effects to improve student outcomes. Out-of-school factors represent a challenge to student learning, but not one that is deterministic of students' ability to succeed.<sup>18</sup>

## HOW CAN SCHOOLS PROMOTE STUDENT ACHIEVEMENT WITHIN THEIR NEXUS OF CONTROL?

While experts and existing research acknowledge the positive impacts that effective teachers can have on students, the educational field continues to "untangle important aspects of these relationships, including the specific ways in which quality teaching operates, the degree to which it drives learning, and how effectiveness evolves as teachers progress through their careers."<sup>19</sup> In addition to strengthening school-based protective factors around teacher effectiveness, **districts and schools should seek ways to provide additional and more impactful supports that directly promote learning and fortify students against the adverse impacts of out-of-school risk factors.**<sup>20</sup>

A Framework to Improve Student Achievement



Source: Multiple<sup>21</sup>

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