The Connection Between School Climate & Academics

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School Climate Technical Assistance Symposium
Underperforming Mailboxes
What Affects Learning Outcomes?

Teaching | Learning
---|---
Cities | Conditions

Better Outcomes
Conditions are:

Environmental features that facilitate or serve as barriers to learning, teaching and development

- Include school climate
- The extent to which students and teachers are and feel:
  - Safe, connected and supported
  - Engaged and challenged
  - Youth and adults can manage their emotions and relationships productively
Individual Capacities:

Personal characteristics, attitudes and skills that help children and youth learn and develop and help teachers succeed as educators.

- The stronger their capacities are, the more likely it is that the learner or the teacher can withstand challenges and poor conditions.
- However, very poor conditions usually overwhelm strong capacities and, even when they do not overwhelm, will limit effectiveness.
Example of School Effects: Impact of 1st Grade Teachers on Seventh Grade School Outcomes?

The Impact of First Grade Teacher Capacity on 7th Grade Behavior (Kellam, Ling, Merisca, Brown, & Ialongo, 1998)
Example of What Can Be Done: PATHS

Children Who Receive PATHS Rate Their Classmates As Significantly Less Aggressive Than Children In Randomized Comparison Classes

Fast Track Study – 378 Classrooms – 6715 children

CPPRG, 1999 – Journal of Consulting and Clinical Psychology
Example of What Can Be Done: Teacher Student Connection On Students Identified to Be at Risk

- Students who were at-risk and placed in first-grade classrooms offering strong instructional and emotional support had achievement scores and student–teacher relationships commensurate with their low-risk peers (Hamre & Pianta, 2005)
False Dichotomies
Biggest Math Gains in Schools that Combine High Levels of Student Social Support and School Academic Press*

*Extent that school members experience strong emphasis on academic standards and success*

Lee, et al. (1999)
Biggest Reading Gains in Schools that Combine High Levels of Student Social Support and School Academic Press

Safety and Statewide Tests

Correlation Between PSAE Tests and Conditions for Learning (Chicago)

- **School Safety**
  - Writing: 0.25
  - Math: 0.30
  - Reading: 0.30
  - Science: 0.35

- **Challenge**
  - Writing: 0.20
  - Math: 0.15
  - Reading: 0.15
  - Science: 0.10
Supportive relationships between teachers and students promote

- student engagement
- positive attitudes
- a sense of belonging toward school
- motivation
A caring school community prevents anti-social behavior that interfere with learning

- Connections with adults in the school & School bonding are protective regarding a range of anti-social outcomes which impact on academic performance (e.g., substance abuse and arrest) (Resnick, Harris, & Blum, 1993; Srpott, Jenkins, & Doob, 2005)
School Climate and Academic Performance Index

Climate relates positively with the Ohio Academic Performance Index, Rush, 2010

Source: EMIS, CSEE, 2006-07
The Four Elements of a Comprehensive Plan for Safe, Supportive and Academically Successful Schools

- Connection, Care, Support
- Challenge & Engagement
- Social Emotional Competency
- Emotional & Physical Safety
**Social and Emotional Conditions for Learning**

<table>
<thead>
<tr>
<th>Safety</th>
<th>Support, Care, &amp; Connection</th>
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<tbody>
<tr>
<td>• Physically safe</td>
<td>• Meaningful connection to adults</td>
</tr>
<tr>
<td>• Emotionally safe</td>
<td>• Experience of Care &amp; Respect</td>
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<tr>
<td>• Treated fairly and equitably</td>
<td>• Strong bonds to school</td>
</tr>
<tr>
<td>• Avoid risky behaviors</td>
<td>• Positive peer relationships</td>
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<tr>
<td>• School is safe and orderly</td>
<td>• Effective and available support</td>
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</table>

<table>
<thead>
<tr>
<th>Challenge &amp; Engagement</th>
<th>Social Emotional Competency</th>
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</thead>
<tbody>
<tr>
<td>• High expectations</td>
<td>• Emotional intelligence</td>
</tr>
<tr>
<td>• School is connected to life goals</td>
<td>• Self Regulation</td>
</tr>
<tr>
<td>• Strong personal motivation</td>
<td>• Culturally competence</td>
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<tr>
<td>• Academic Engagement</td>
<td>• Responsible and persistent</td>
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<tr>
<td>• Rigorous academic opportunities</td>
<td>• Cooperative team players</td>
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<td>• Contribute to school community</td>
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</table>

Osher et al., 2008
Safe and Respectful Climate

- Emotional Safety
- Climate Of Mutual Respect And Trust
- Students Comfortable Taking Personal And Academic Risks
Safe and Respectful Climate

- Physical Safety
- Little Or No Fighting, Bullying, Crime, Gang Presence, Or Substance Abuse
Impact of Safety on Math Achievement: National Surveys

- **NAEP** (*National Assessment of Educational Progress*)
  - At all three grade levels students in schools reporting an above-average climate had higher mean NAEP mathematics scale scores than students in schools reporting average or below-average school climate on the same measure. (Greenberg, Skidmore, Rhodes, & Nesbitt, 2001)
Impact of Violence & Bullying

- Perception of Safety was the highest correlate of attendance in the Bryk et al. (2010) study of Chicago School Reform.
- Violence and bullying affect the extent to which students and staff feel “angry, anxious, depressed, fearful, frustrated, upset, traumatized, worried, sad, otherwise distressed” directly and indirectly (e.g., Nansel et al., 2001; Flannery, 2006).
Implementing positive behavior support systems

- Students need to arrive at class “ready to learn”
- Teaching time lost to problem behavior
- Learning time lost to problem behavior generated disciplinary encounters (e.g., 41% of time for disciplined students according to one urban coordinator)
- Teaching time lost because students do not move efficiently through halls
- Teachers frequently do not provide opportunities to learn to students who exhibit problem behavior
  - E.g., wait time; being called upon
Student Support

- Adults Listen To Students, Care About Them And Treat Them Fairly
- Adults Provide A Welcoming Environment For Students
- Supportive relationships promote student engagement, positive attitudes, and a sense of belonging toward school, motivation, and academic achievement
Headlines from One Comprehensive Review of “Students Need for Belonging in the School Community” (Osterman, Review of Educational Research, 2000)

- **Positive Relationships With Staff And Peers Associated With:**
  - Intrinsic Motivation
  - Accept Others Authority While Developing A Strong Sense Of Identity
  - Experience Autonomy
  - Accept Responsibility To Regulate Their Own Emotions

- **Experience Of Acceptance Associated With:**
  - Positive Orientation To School, Class Work, & Teachers

- **Dropouts Feel Estranged From Teachers And Peers**

- **Belonging \(\rightarrow\) Engagement \(\rightarrow\) Achievement**
• Adolescent perceptions of connections with teachers predicted academic growth in Mathematics (Gregory & Weinstein, 2004)

• Students were more likely to perform well on tests when they believe that their teachers care about them (Muller, 2001; Ryan & Patrick, 2001)
  ○ this relationship is stronger for students who are judged to be at risk for dropping out of high school
Create a caring community

- Teachers who had high-quality relationships with their students had 31% fewer discipline problems, rule violations, and related problems over a year’s time than did teachers who lacked high-quality relationships with their students (Waters, Marzano, & McNulty, 2003)
- Connections with adults in the school are protective regarding a range of anti-social outcomes which impact on academic performance (e.g., substance abuse)
Authentic Challenge

- Teachers Establish A Connection With Students
- Teachers Provide Extra Help When Students Are Having Trouble Understanding Material
- Teachers Engage Students In The Learning Process
Academic Challenge

- School Courses And Lessons Are Challenging To Students
- School Staff Provide Academic Support To All Students
Academic Challenge

- Students Are Expected To Work Hard To Learn
- Students Are Interested In What They Are Learning
- Students Are Not Bored By Their Classes
The Implications of Freedom  Writers
Teachers and Student Achievement

- “The most critical aspects contributed by the teacher are the quality of the teacher, and the nature of teacher-student relationships.” (Hattie, p.127)

- Creating “an environment for student learning” appears to be more important than the domains Planning and Preparing for Student Learning, Teaching for Student Learning, and Professionalism in its impact on achievement (Kane, Taylor, Tyler, & Wooten, 2010)
Social and Emotional Learning

- Work Well With Others
- Cooperate As Team Players
Social and Emotional Learning

- Solve Problems With Persistence And Creativity
- Set And Work Toward Goals
- Make Responsible Decisions In Academic And Social Settings
- Recognize And Manage Emotions
An Example of the Challenge: Richards High School: Most Students At My School....

- Get into arguments when they disagree with people—69%
- [Don’t] Try to work out their disagreements with other students by talking to them -60%
- Say mean things to other students when they think the other students deserve it- 67%
- Think it's OK to fight if someone insults them- 64%
- [Don’t] Stop and think before doing anything when they get angry – 69%
Social and Emotional Conditions for Being Off Track

- **School Safety**: Off Track (320) vs. On Track (300)
- **Challenge**: Off Track (260) vs. On Track (240)
- **Student Support**: Off Track (280) vs. On Track (260)
- **Social and Emotional Skills**: Off Track (240) vs. On Track (260)

The chart above illustrates the mean scale scores for Off Track and On Track conditions across the categories of School Safety, Challenge, Student Support, and Social and Emotional Skills.
School Climate and Graduation Rate

Climate scores for high schools have a direct relationship with graduation rates. Rush, 2010

Source: EMIS, CSEE, 2005-06
Evidence of Success with SEL

- 23% increase in skills
- 9% improvement in attitudes about self, others, and school
- 9% improvement in prosocial behavior
- 9% reduction in problem behaviors
- 10% reduction in emotional distress
- 11% increase in standardized achievement test scores (math and reading)

Comparing What Works Clearing House Improvement Indices for 2 Evidence-based Reading and Math Programs

Aggregate Improvement Index for all interventions in the CASEL Meta-Analysis of 207 SEL Programs

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<tr>
<td>Everyday Mathematics: Math Achievement</td>
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<tr>
<td>SEL Programs Academic Performance</td>
<td>11</td>
</tr>
<tr>
<td>SEL Programs Social Emotional Skills</td>
<td>23</td>
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</tbody>
</table>
Why Are Conditions for Learning Important?

• Maximizing the amount of time that students really attend to learning
  ◦ E.g., working memory (Davidson, 2002)

• Maximizing the opportunity for the teacher to:
  ◦ Concentrate and differentiate
  ◦ Teach in the Zone of Proximal Development (Vygotsky, 1978)
    - Personalizing instruction
    - Scaffolding learning and support
The Zone of Proximal Development for Learning and Development

Adapted from: Nakkula, & Toshalis, 2006
The Challenge: Be in the Zone of Proximal Development for Every Child
Logic Model for Safe and Successful Schools

Strategic and Evidence-Based Learning Supports and Effective Opportunities To Learn

Safe, Caring, Cooperative, Well-Managed, and Engaging Learning Environments

Teach SEL Competencies
- Self-awareness
- Social awareness
- Self-management
- Relationship skills
- Responsible decision making

Effective Instructional, Behavioral, and Emotional Supports

Greater Attachment, Engagement, and Commitment to School

Less Risky Behavior, More Assets, and Positive Development

Better Academic Performance and Success in School and Life
Work at Three Levels

Provide Individualized Intensive Supports
Provide coordinated, intensive, sustained, culturally competent, individualized, child- and family-driven and focused services and supports that address needs while building assets.

Development Activities
Implement strategies and provide supports that address risk factors and build protective factors for students at risk for severe academic or behavioral difficulties.

Build a School-Wide Foundation
Universal prevention and youth development approaches, caring school climate, positive and proactive approach to discipline, personalized instruction, cultural competence, and strong family involvement.
Academic Improvement Model

What we do for students who have high risk factors

What we do for students who have risk factors

What we do for all students

Academic Achievement

Conditions for Learning

Academic Achievement Plan General Resources
An Example of What Can Be Done: North Lawndale College Preparatory School, Chicago

- “This is not about graduating from high school; it is about graduating from college”
- Money for counselors, not metal detectors and security staff
- One counselor stays with same students grades 9-13; another one follows up 14-16
An Example of What Can Be Done: North Lawndale College Preparatory School, Chicago

- Strong academic press; strong social support
- Supports academic risk taking: “teachers are like another set of parents”
- Development of moral community
- Fellow students “like brothers, sisters, cousins”
References