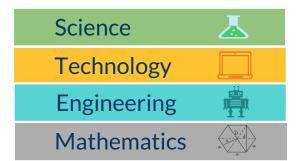




Tyrone D. Blocker, Ph.D. President Blocker Education Research, LLC





What Are Drivers of Equitable Achievement?



Student Aggregate Science Score (SASS)

 $SASS = [(1.5)^* SSE - 0.5 + CEET + PEET + APDE + SR]$



% of students passing 10th grade science examination (SSE)



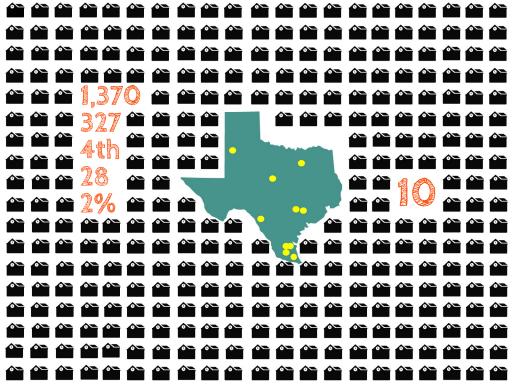
% of students taking a college entrance examination

% of students passing or exceeding the criterion on a college entrance examination (PEET)

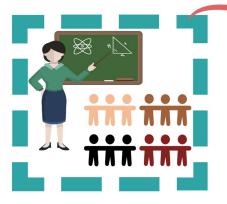


% of students completing an Advanced Placement course (APDE)

Overall state accountability (SR)



High Achieving, Highly Diverse Science Classroom

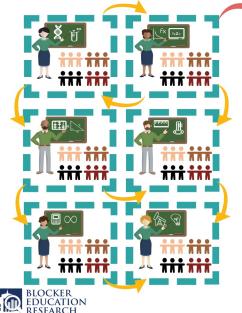


Equity Pedagogy

"Teaching strategies and classroom environments that help students from diverse racial, ethnic, and cultural groups attain the knowledge, skills, and attitudes needed to function effectively within, and help create and perpetuate, a just, humane, and democratic society" (Banks, 1995, p.152).



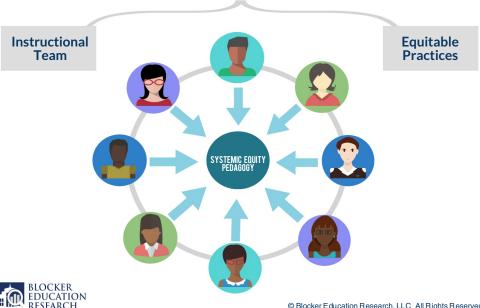
High Achieving, Highly Diverse High School Science Program



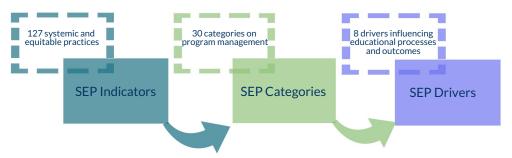
Systemic Equity Pedagogy

A systems approach to implementing equitable teaching and learning practices through the collaborative efforts of instructional team members at the program-level. SEP considers specific drivers and indicators that contribute to school-level organizational processes and outcomes that associate with high-student proficiency and college-readiness. (Blocker, 2013)

Equitable Program Practice



SEP Process Map





Systemic Equity Pedagogy Eight-Driver Model



Standards-based Curriculum & Instructional Materials

Instructional teams align curriculum resources and instructional materials with written academic standards and reflective practices to produce quality lessons and learning experiences designed to encourage student mastery of knowledge and skills.

Reflective Curriculum Practices

Instructional Material & Resources



Basis of Selecting Instructional Materials









Instructional teams explore reform-based learning principles that guide the act of teaching and shape how educators carry out their professional practices in a classroom setting.

Collaborative Learning

Scientific Inquiry



Questioning Strategies

Enhanced Context



Convergence of Resources into Science Programs

Instructional teams benefit from the actions of school leaders to merge fiscal, intellectual, and material resources that enable support for systematic and programmatic improvement efforts.







Instructional teams obtain extended abilities from actions that enhance the decision-making processes, communication pathways, and how support is accessed from other stakeholders including teachers, school leaders, and support staff.









Instructional teams examine student achievement indicators and use various assessment instruments, tools, and approaches to accurately assess and monitor student performance.



Standardized Assessments



Benchmark Assessments

Pre/Post Tests





Instructional teams participate in high-quality jobembedded and external professional development opportunities to increase the joint capacity at delivering effective, evidence-based, and student-centered instruction.



PLC Meetings Model Teaching In-district PD





STEM-related Education Conferences

Regional Education Service Center







Instructional teams cultivate a strong professional culture by developing collective norms, philosophy, and establishing modes of professional practice.



Professional Philosophy

Shared Practices Among Teachers



Teacher Individuality

Reflective Teaching Practices





Instructional teams employ teaching practices that enhance academic competence by incorporating the students' cultural background, and that meet social and emotional needs during the learning experience.



Differentiate Instructional Practices

College-Ready Preparation



Engage Students' Personal Interests

Career Plan Development

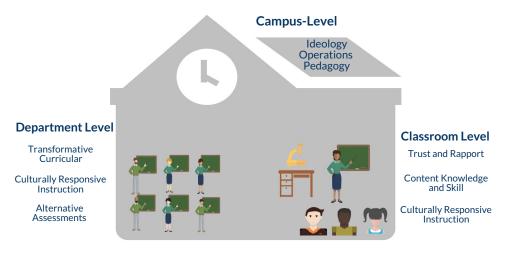


Equitable Teaching Strategies in STEM Programs

Questioning Enhanced Context Collaborative Learning Manipulation Multiple Assessments Scientific Inquiry Project-based Learning Performance-based Learning



Equitable School Program Model







Systemic Practices for Excellence and Equity in Diverse Schools (SPEEDS) Using Instructional Teams

During this practical two-day professional development training, instructional teams will delve into the research-based findings on equitable program practices from high-achieving, highly diverse schools. Instructional team will also create strategic and integrated action plans that guide their next steps toward implementing concrete and equitable program practices in their content area.

A few goals of this training include:

Leading school teams to assess their current perceptions toward teaching, repertoire of instructional practices, and goals for improving student performance outcomes working as a unit.

Equipping school teams to understand how collective, regular, and strategic equitable program practices impact cultural, instructional, and operational factors that move heterogeneous student group toward achievement.

Registration fee: \$150

Length: 2-Days (12-hours)

Training mode: Face-to-Face



For additional information visit: www.BlockerEducationResearch.com



Leading Change for Excellence and Equity Using the SPEEDS Framework

This training will target instructional leadership teams at the school-level including campus principals, assistant principals, curriculum specialists, and grade level/content area chairperson(s). Participants will walk through the Systemic Practices for Excellence and Equity in Diverse Schools (SPEEDS) Framework, develop specific goals for leading change for excellence and equity in classrooms and then create an action plan for implementation and monitoring.

A few goals of this training include:

Guiding instructional leaders to evaluate their current perceptions and practices on leading the change process for equitable teaching.

Engaging instructional leaders in the design of a customized action plan that incorporates reflective, relevant, and evidence-based strategies for increasing the educational outcomes for all students.

Registration fee: \$75

Length: 1-Day (6-hours)

Training mode: Face-to-Face

For additional information visit: www.BlockerEducationResearch.com

