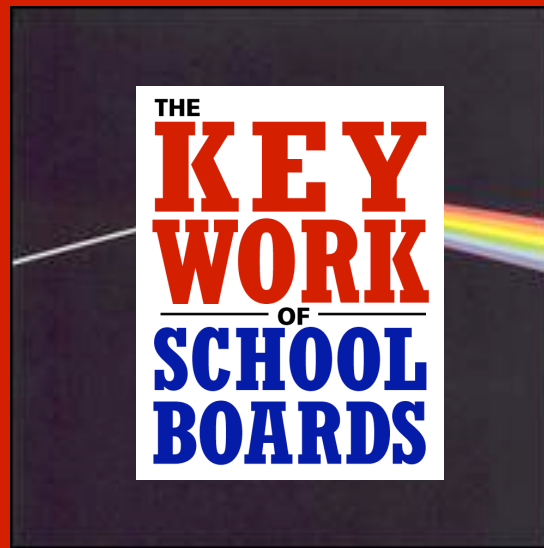


National School Boards Association

Science, Math, and Technology
Education Seminar



American Association for the
Advancement of Science

Vision

**Continuous
Improvement**

Standards

Collaboration

Assessment

Climate

Accountability

**THE
KEY
WORK
OF
SCHOOL
BOARDS**

Alignment

Vision

THE
KEY
WORK
OF
SCHOOL
BOARDS

Vision

Establish a clear
vision of student achievement
as a top priority
of board, staff, and community

**“What do we want for our
students and our community?”**

Vision

Standards

THE
KEY
WORK
OF
SCHOOL
BOARDS

Standards

**Set clear
standards for
student performance**

**“What should students
know and be able to do?”**

Vision

Standards

THE
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SCHOOL
BOARDS

Assessment

Assessment

Establish an
assessment process
that measures success
at regular intervals:

**“How will we know that
our program is effective?”**

Vision

Standards

**THE
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SCHOOL
BOARDS**

Assessment

Accountability

Accountability

Establish a clear
accountability
process

“Do we use data to make
changes when necessary?”

Accountability

What is it?

- **Analyze data to determine what is effective and what is not.**
- **Discuss the data and analysis openly.**
- **Use the data to make decisions, including changes if necessary.**

Vision

Standards

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BOARDS**

Assessment

Accountability

Alignment

Alignment

Align resources
to focus on
enabling students
to meet the standards
**“Put our money where
our vision is.”**

Alignment

Align resources:

- **Curriculum**
- **Staffing**
- **Training**
- **Books and Materials**
- **Technology**
- **Supplemental services**
(tutoring, summer school, etc.)

Vision

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Assessment

Climate

Accountability

Alignment

Climate

Create a
**positive climate
for student success**

**“How do we build shared
ownership among staff
and students?”**

Vision

Standards

Collaboration

Assessment

Climate

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Alignment

Collaboration

Build **collaborative relationships** with political and business leaders to make student success a top community priority.

“Who are our key partners in creating and maintaining strong schools?”

Vision

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Alignment

Continuous Improvement

Commit to
continuous improvement
for student achievement

**“What do we do to get better
systematically over time?”**

Continuous Improvement

Key elements:

- Set standards for performance
- Benchmark processes
- Collect data and feedback
- Know your data!
- Use data-driven decision making
- Reward success, weed-out failure
- Reassess and recalibrate standards

Vision

**Continuous
Improvement**

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Alignment

Board and Superintendent Roles

- Provide policy basis, resources, community engagement support, and oversight.

- Identify options for board consideration.
- Implement decisions.
- Provide data and information on success or its lack.

General principles

Action Planning

Developing a Vision for Strong Math, Science, and Technology Programs

Who?

How?

When?

Table Talk

Action Planning

Standards for Math, Science, and Technology Programs

Table Talk

Action Planning

Assessment, Accountability and Alignment for Math, Science, and Technology Programs

Table Talk

Action Planning

**Climate and Collaboration for Math,
Science, and Technology Programs**

Table Talk

Action Planning

**Continuous Improvement for Math,
Science, and Technology Programs**

Homework