



Leadership & Teaching to Advance Learning

Education Program

Standards	Curriculum	Professional Learning
ELA/Literacy Mathematics Science	High-Quality Instructional Materials Aligned Interim Assessments	Curriculum-Based Professional Learning for Teachers & Leaders

Grantees represented in the Leadership & Teaching portfolio



Improving the Instructional Core

Improve student learning at scale



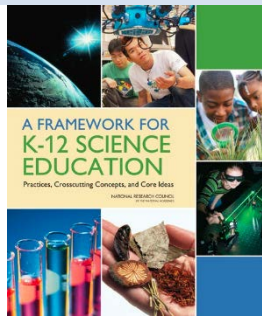
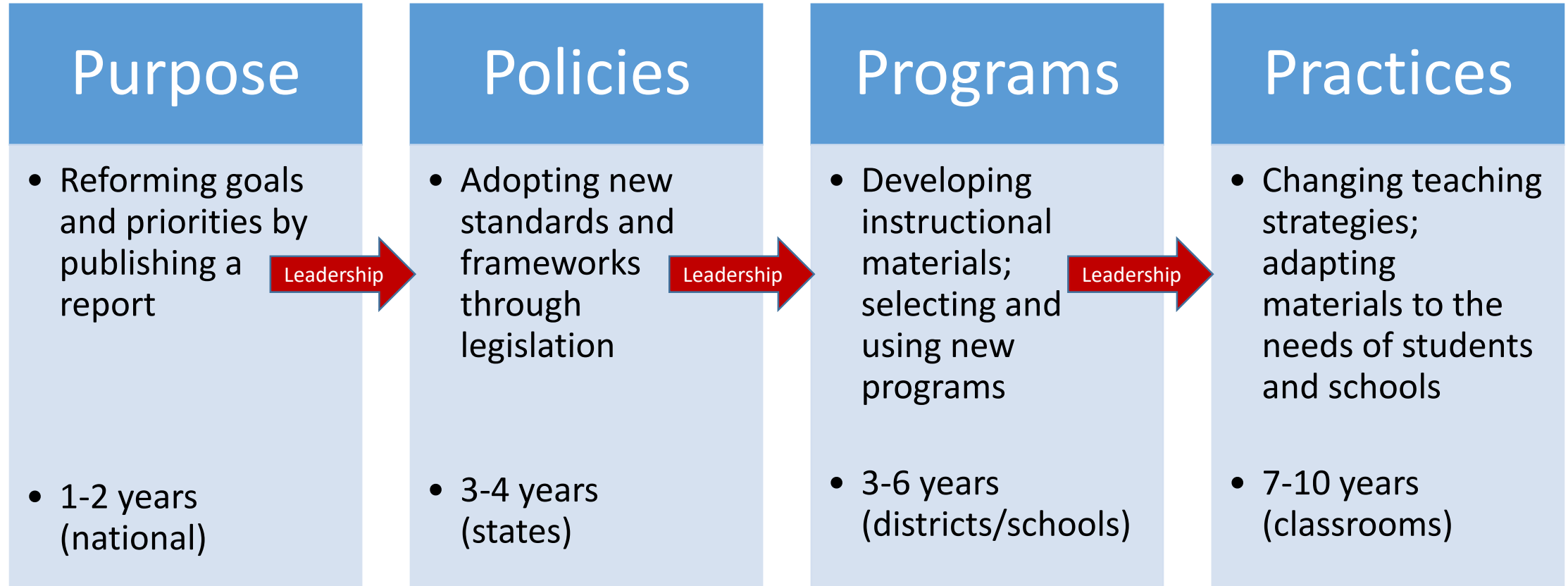
teachers' knowledge & skills
Professional Learning

level of students' active learning
Instructional Materials

level of content
Standards & Assessments

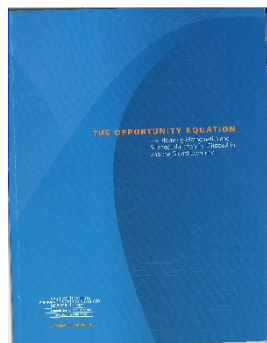


Standards & Curriculum Reform



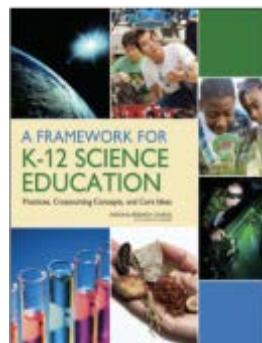


Investments in Science Education



INSTITUTE FOR
ADVANCED STUDY

2007-2009



THE NATIONAL ACADEMIES
Advisers to the Nation on Science, Engineering, and Medicine

2009-2011



2010-2017



Curriculum-Based
Professional Learning

K-12 Instructional
Materials

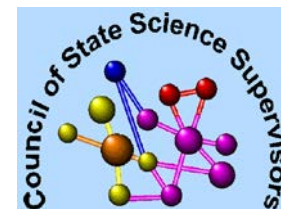


Interim Assessments



2018-present

Leadership
Development



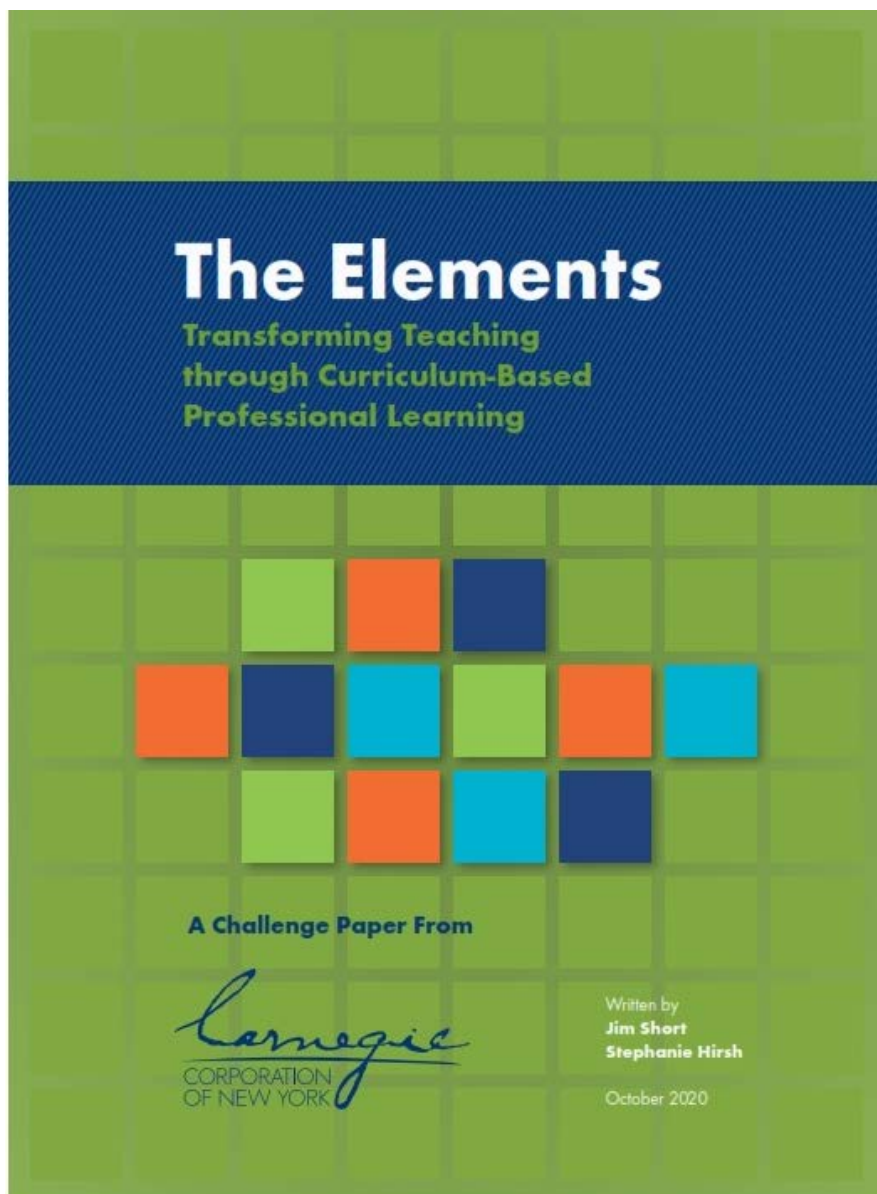
OpenSciEd50+



Research Agenda



2020 - present



The Elements

of Curriculum-Based Professional Learning

Core Design
Features

Cu
Curriculum

Functional Design
Features

TL
Transformative
Learning

LD
Learning
Designs

Be
Beliefs

Eq
Equity

RF
Reflection &
Feedback

CM
Change
Management

Structural Design
Features

CP
Collective
Participation

Mo
Models

Tm
Time

The Essentials

Le
Leadership

Re
Resources

Co
Coherence

The Elements are the expectations and according actions that school and district leaders, curriculum developers, and teacher development organizations take to promote and design curriculum-based professional learning. They include:

- **core design features**, which focus on the purpose of curriculum-based professional learning
- **functional design features**, which shape teachers' experiences
- **structural design features**, which describe parameters and settings

Elements may be used in different combinations depending on what individuals and organizations need at different times. But all curriculum-based learning rests on **The Essentials** — the expectations for system and school leaders that nurture growth and change.