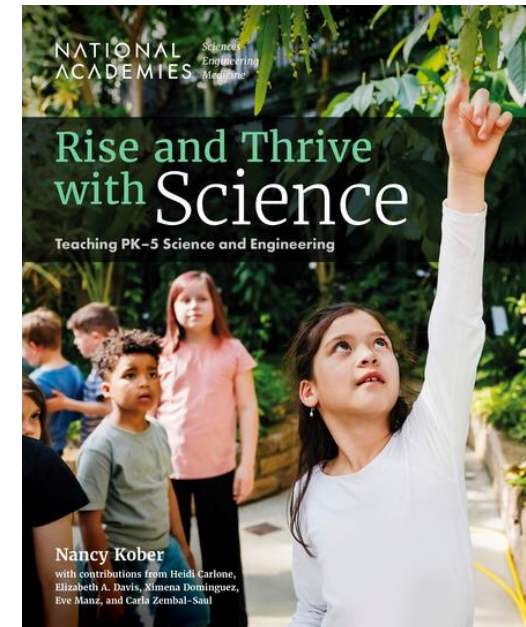
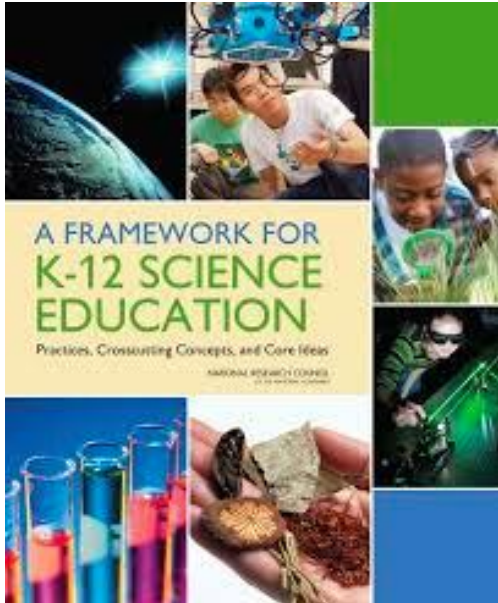


The Evolving State of K12 STEM Education

GUIRR Panel Discussion
Nancy Hopkins-Evans, Ph.D.
BSCS Science Learning
February 7, 2024

Context

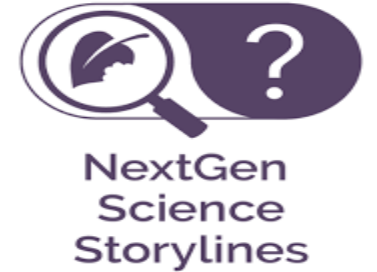


High Quality Instructional Materials

Aligned to standards - three dimensional

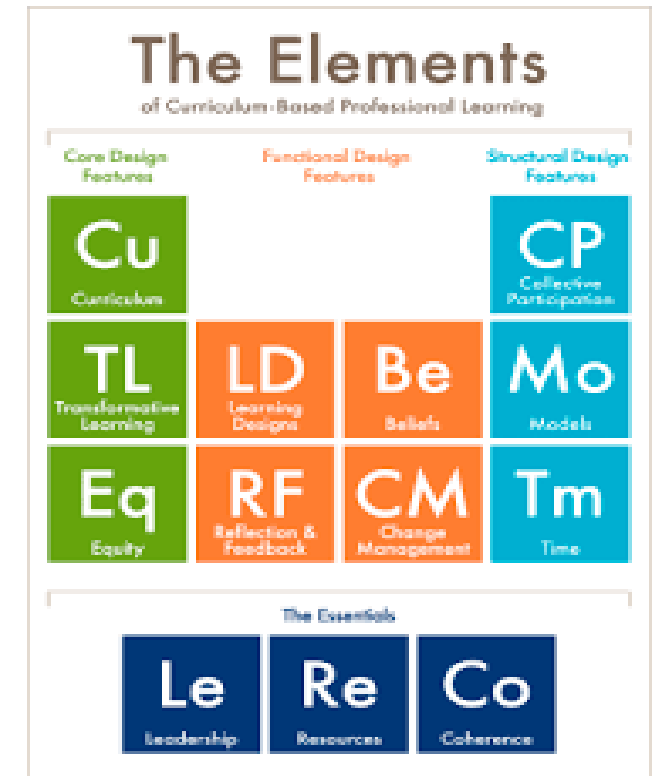
Driven by phenomena, solving problems and student questions

Coherence across lessons and units



Curriculum Based Professional Learning

Transforming Teaching through immersive, ongoing experiences using high quality instructional materials



Open Educational Resources - Adaptations

Developed to be used “as-is”
or adjusted and adapted as
needed

Opportunities to revise and
update regularly

Why adapt materials?

Timing and scheduling

Relevance

Culture context

Community context

STEM is a Social Endeavor



- Humane Genetics - addressing genetic essentialism
- Evaluating Misinformation and Disinformation
- Social and Environmental Justice

Assessment

Formative and Summative
Beyond reciting facts and
theories

Using STEM to figure out
authentic phenomena and
problems



2028 NAEP Science
Framework Update

