

Science and Technology / Engineering

Liz Butler Everitt
K-8 STE Curriculum Coordinator
School Committee Presentation
May 8th, 2023



2016

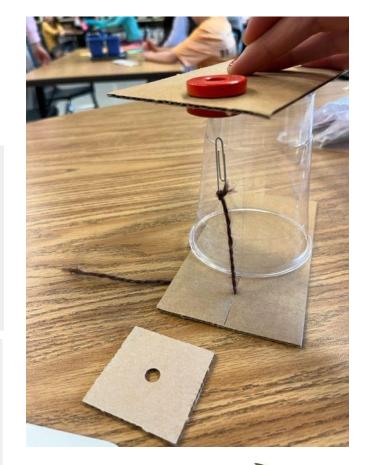
Science and Technology / Engineering Framework

Framework Shifts

- Analyze and explain scientific phenomena
- Focus on conceptual understanding
- Integrate science practices and engineering
- Apply understanding to real world problems
- Build science core ideas and practices, K-8

NPS STE Implications

- Reconfigure our sequence of science core ideas
- Embed a purposeful progression of science practices and engineering
- Embrace a pedagogical shift to support student understanding and engagement





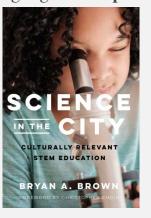
STE Framework Shifts and NPS Goals

Changes to the Science and Technology / Engineering framework necessitate reworking science curriculum and instruction and support our NPS Goals of Academic Excellence and Educational Equity.

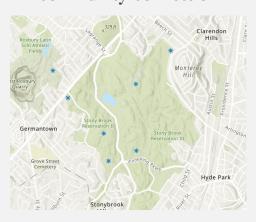




Language Development



Community Connection





2015-2023 K-8 Curriculum Updates

Science and Technology / Engineering

							Remote/Hybrid Adjustments	Assess & Plan		
					new units, rily grades 3-5	New curriculum pilots				
	2015	2016	2017	2018	201	9	2020 20	21 20:	22 202	23
Middle Schools	New scope of sequence		PS Middle Schoo urriculum	ol Teachers De	evelop N	[ew	Remote/Hybrid Adjustments	Assess & Plan	New pilots	





Grade 1, Pilot Light and Sound



2022-2023

Elementary

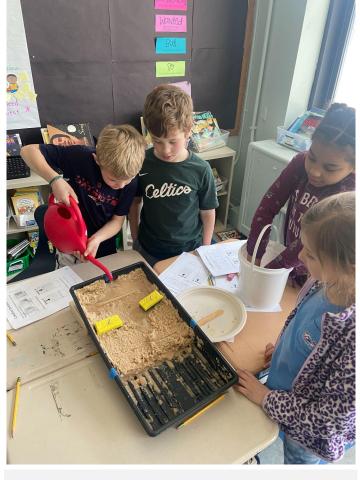
Pilots

Science and Technology /
Engineering









Grade 2, New Unit
How can we stop soil from washing away?

2022-2023 Elementary

New Units

Science and Technology / Engineering



Grade 3, New Unit Balancing Forces





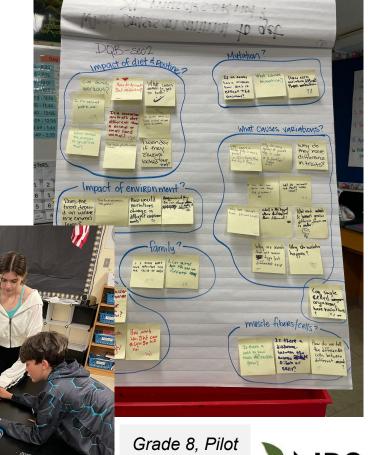


Grade 6, Pilot Light & Matter



2022-2023 Middle School Pilots

Science and Technology /
Engineering



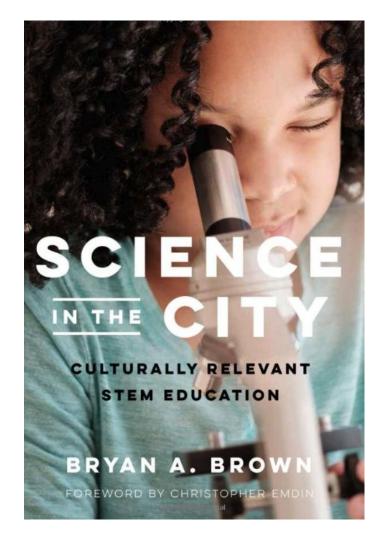
Grade 8, Pilo Genetics



2022-2023 Middle School

Professional Development

Science and Technology / Engineering





2023-2024 Focus

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Engineering

K-2

- Application to field test OpenSciEd in two schools in 2022-2023
- Concurrently continue with an additional curriculum pilot

Grade 3

- Implement
 Evolving Minds
 unit following
 2-year pilot
- Finalize NPS revisions to Climate and Life Cycles unit

6-8

- Grade 6 professional development and implementation of OpenSciEd Light & Matter unit
- Grade 8 collaboratively review Genetics unit pilot

K-8

- Continue work on examining practices around language development
- Expand to include supporting EL students