

<u>Update on the</u> <u>New York State Science</u> <u>Learning Standards</u>

East Rockaway Board of Education Curriculum Presentation April 18, 2023







East Rockaway School District Mission Statement

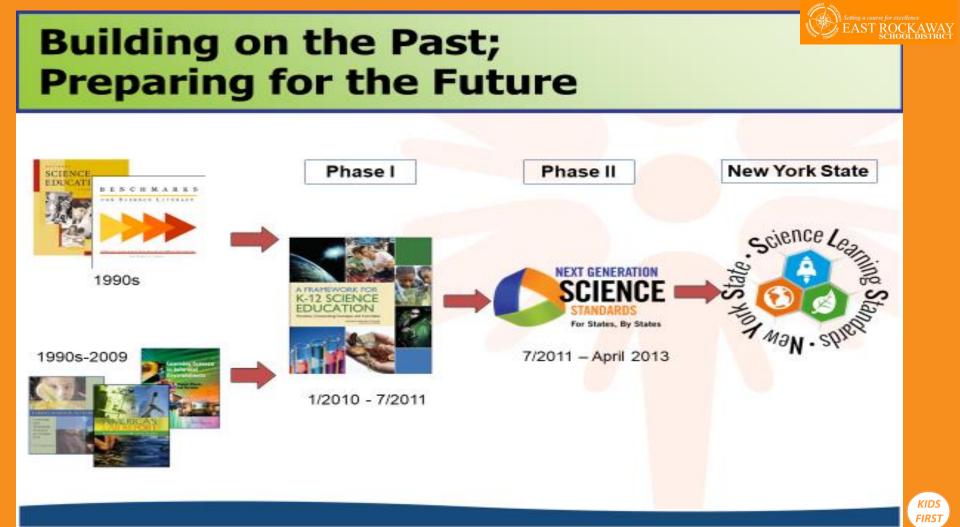
The East Rockaway School District respects our diverse community and proud traditions by <u>engaging</u> <i>every student in an <u>innovative</u> and <u>challenging</u> <i>educational program which <u>inspires learners</u> to become self-directed, ethical, <u>creative</u>, and globally conscious citizens.





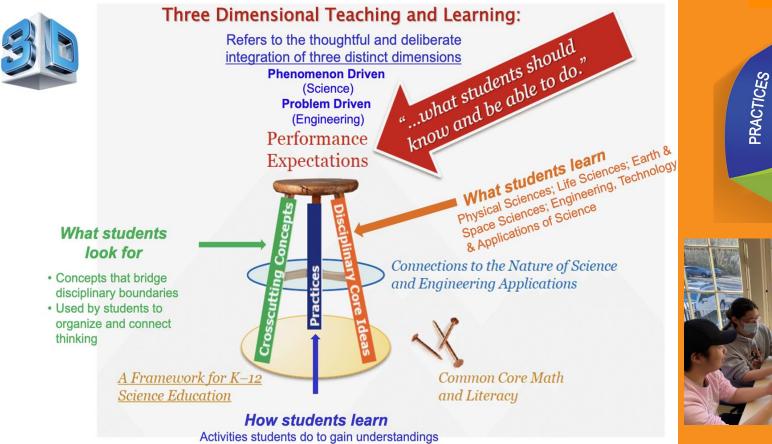








CROSSCUTTING



KIDS



- ★ Reduce the scope of disciplinary content to allow classrooms to dive deeper into the content knowledge
- ★ Emphasis placed on inquiry-based learning
- ★ Identifying, observing, and deconstructing phenomena to better understand content knowledge
- ★ Emphasis placed on application of skills rather than the transfer of content knowledge

Shift from:

- \succ Know \rightarrow Do
- ➢ Getting the "Right Answer" → Process
- \succ Memorization \rightarrow Application







Implementation of NYSSLS in East Rockaway

- ★ Elementary Schools have adopted Science 21
- ★ Science 21 is an inquiry-based elementary science program designed and aligned to the New York State PK-12 Science Learning Standards
- ★ Our subscription to Science 21 through PNW BOCES includes materials "kits" for hands-on experiences and ongoing professional training
- ★ Students use the Science and Engineering Practices to help them make sense of the Disciplinary Core Ideas and connect across topics using the Crosscutting Concepts





Implementation of NYSSLS in East Rockaway

- ★ 6th-7th grade team: working to realign teaching practices to accommodate 3D learning standards across the middle school grade band
- ★ Teachers in the science department have formed a professional learning community (PLC) to collaboratively design 3D lessons
- ★ High School Regents Courses have aligned curriculum to NYSSLS requirements and expectations
- ★ Science staff members are and will continue to receive professional development in house and with the support of our BOCES partners



NYSSLS Aligned Exams Roll Out Schedule

Spring 2024	June 2025	June 2026
New Elementary 5th Grade Test	Biology Regents	Chemistry Regents
*8th grade test not taken by our students	Earth & Space Science Regents	Physics Regents





Connecting NYSSLS to 21st Century Skills

- Creative problem solving through the engineering practices
- Communication and collaboration skills through hands-on science experiences
- Critical thinking about phenomena, not simple regurgitation
- Integrated development of 21st Century competencies



21ST CENTURY SKILLS HOW TODAY'S STUDENTS CAN STAY COMPETITIVE IN A CHANGING JOB MARKET







Thank you for your attention.

Are there any questions?

