

## <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

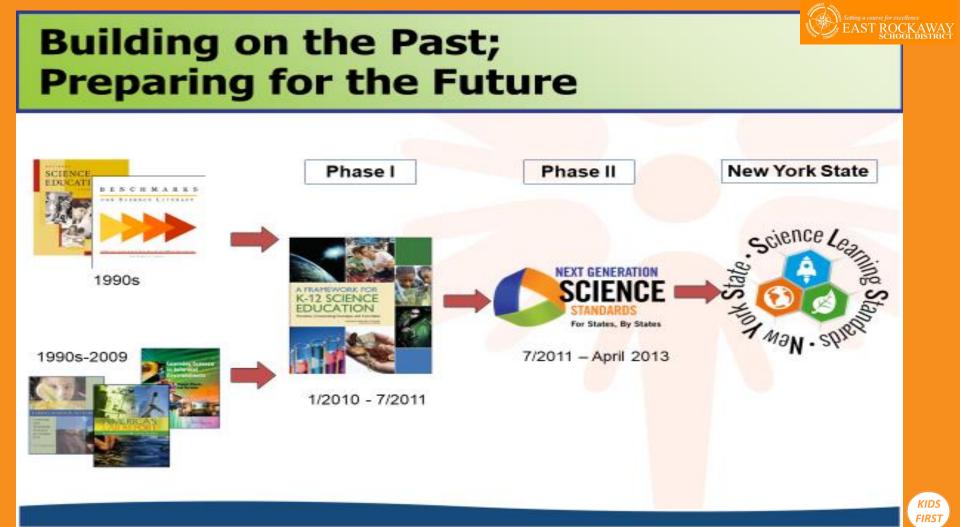
*The East Rockaway School District respects our diverse community and proud traditions by <u>engaging</u> <i>every student in an <u>innovative</u> and <u>challenging</u> <i>educational program which <u>inspires learners</u> to become self-directed, ethical, <u>creative</u>, and globally conscious citizens.* 





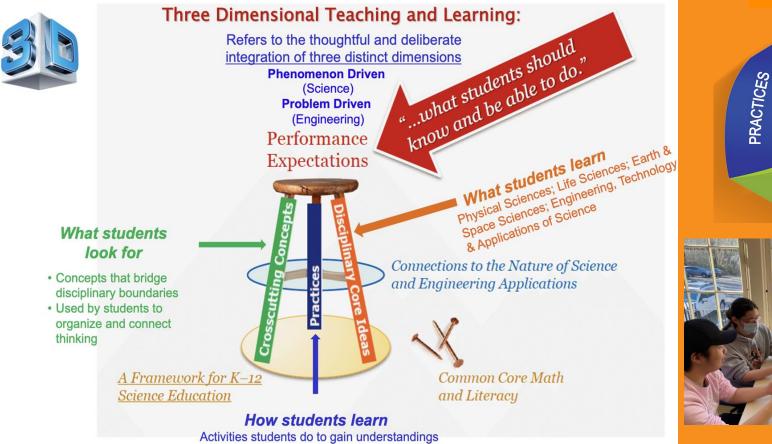








CROSSCUTTING



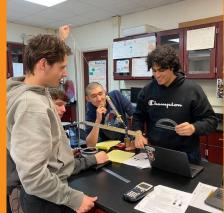
KIDS



- ★ 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

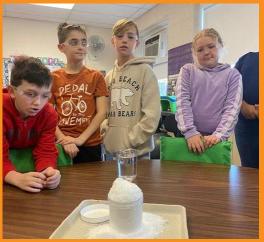






#### Implementation of NYSSLS in East Rockaway

- ★ 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

- ★ 6<sup>th</sup>-7<sup>th</sup> 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 21<sup>st</sup> 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 21<sup>st</sup> 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?

