Putnam Valley Middle School Implementing NYSSLS

Grades 5 - 8

Our goal is to foster a love for science while investigating the world around us and to inspire students to think like scientists!

A move from Earth Science to Science 8 Implementing the NYSSLS

Earth Science - Regents Credit

Physical Sciences

Science 8 - NYS Science Learning Standards

Physical Sciences

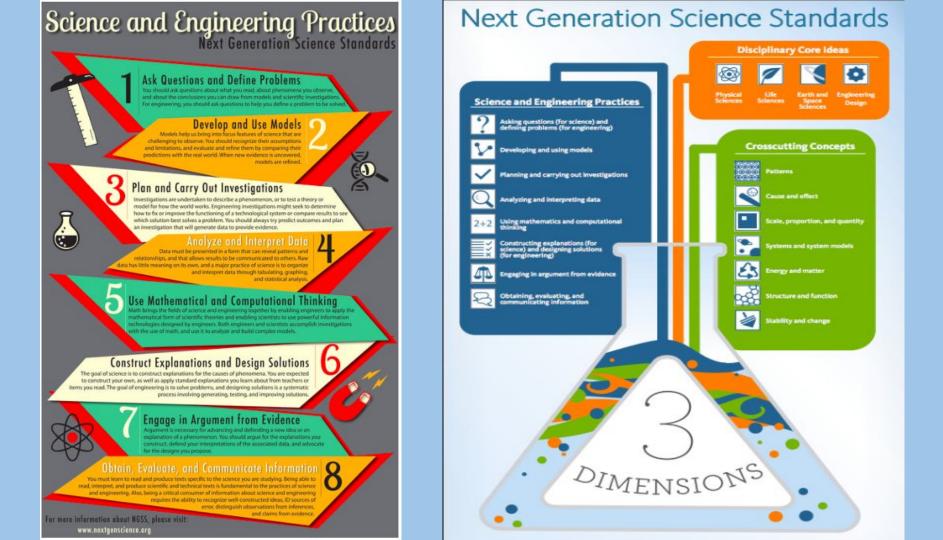
Life Sciences

Earth and Space Sciences

Engineering Design

*This builds a balanced foundation for all of our sciences

*This will spiral in grades 6 - 8





1. The NYSSLS curriculum (New York State's Science Learning Standards) is designed to provide students with the foundational knowledge and skills they will need to be successful on the current and more importantly future regents exams in science.

2. This model will support heterogeneous groupings of students across all 8th grade science classes.

3. The recommendation is being made only after working with both MS and HS teachers and administrators on how to best support students throughout our science program.

4. This change will have NO impact on a student's ability to pursue the highest levels of our science curriculum or to pursue an IB diploma or certificate.

5. We anticipate that many schools across New York State have made or are considering making a similar move away from regents level middle school science courses. (Briarcliff, Harrison, Somers)

A shift to the standards . . .

At the high school level, the current regents exams will integrate the NYSSLS in the near future. This helps to build the foundation for our students and prepare them for that shift.

This shift addresses the how and why as opposed to just the facts.

Students are encouraged to think critically and to investigate like a scientist.

Aligned with IB philosophy (Inquirers, Knowledgeable, Reflective, Thinkers)

Multiple Science Pathways

Science 8 – NYSSLS – Physical Sciences, Life Sciences, Earth and Space Sciences, and Engineering Design.*This will spiral in grades 6 – 8

9th - Living Environment

10th - Chemistry and/or Earth Science

11th – Chemistry and/or AP Physics and/or Physics Honors and/or Earth Science and/or Electives

12th – IB Chemistry, IB Bio, IB Environmental Systems and/or Chemistry and/or AP Physics and/or Physics Honors and/or Earth Science and/or Electives

All of this information is found in the <u>PVHS Course Catalog</u>. (pg. 38)

Graduation Requirements (Science)

Regents Diploma

- Science 3 Credits
 - (1 Science Regents Examination Passed) Living Environment Chemistry
 Earth Science Physics

Advanced Regents Diploma

• Science 3 Credits

(2 Science Regents Examinations Passed) (1 must be Living Environment) • Living Environment • Chemistry • Earth Science • Physics

All of this information is found in the <u>PVHS Course Catalog</u>. (pg. 4)

Brian Greene Theoretical Physicist, Columbia University



<u>A Case for Implementing NYSSLS at</u> <u>PVMS for ALL Students</u> by Maria Bradfield