

STATE EDUCATION DEPARTMENE UNIVERSITY OF THE STATE OF NEW YORK / ALBANY, NY 12234

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Science High School Course Mapshorsical Science hysics Courses that will Culminate in a Corresponding Regents Examination in Science

Background

The New York State 172 Science Learning Standards are based on guiding documentary for K12 Science Education and the Next Genera K



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- 2. Student performance expectations (PEs) may be taught in any sequence or grouping within a course.
- 3. The highlighed performance expectations are performance expectations that are unique to New York State.
- 4. An asterisk (*) indicates an engineering connection to a practice, core idea, or crosscutting concept.
- 5. The Clarification Statements are examples and adalition dance for the instructor. (NYSED) or a highlight indicates New York specific statement/wording.
- 6. The Assessment Boundaries delineate content limits of concepts that may be assessed and arguessments.

7. Within the standards, the section Q W L W O H G ³ I R X Q G D W L R Q E R [HAVF rankewold HolSKU2RSGion Ed Ed Cation U E D W L P Practices, Crosscutting Concepts, and Core Ideas, except for statements that contain (NYSED). The material is integrated dand th permission from the lational Academy of Sciences.

8. Within the standard <u>shree Connection Boxes (not shown in the diagram</u>) ated below the Foundation Boxes, are designed to support a coherent vision of the standards by showing how the performance expectations in redeated stonnect to other PEs in science, as well as to Common Core State Standards. The three boxes include:

- x <u>Connections to other DCIs in this grade levid</u> is box contains the names of science topics in other disciplines that have related disciplinary core ideas at the same grade level. For example, both Physical Science and Life Science performance expectations contains core ideas related to Photosynthesis and could be taught in relation to one another.
- x <u>Articulation of DCIs across grade lev</u>eTshis boxcontains the names of other science topics that either 1) provide a foundation for student understanding of the core ideas in this set of performance expectations (usually at prior grade levels); or 2) double foundation provided by the core ideasthins set of PEs (usually at subsequent grade levels).
- x <u>Connections to the New York State Next Generation Learning Standards</u> on the coding and name soft York State Next Generation Mathematics Learning Standards (2011) New York State Next Generation English Language Arts Learning <u>Standards (Revised 2011</u>) at align to the performance experies on the state of the mathematical skills students need for science were taught in a previous year where possible.

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HS. Waves and Electromagnetic HS-PS41. Radiation	Using Mathematics an Computational Thinking	PS4.A: Wave Properties	Cause and Effect	
HS. Waves and			Stability and Change;Connections to Engineering, TecNthand TAL.11	· ·
Electromagnetic HS-PS42. Radiation	Asking Questions and Defining Problems	PS4.A: Wave Properties		