

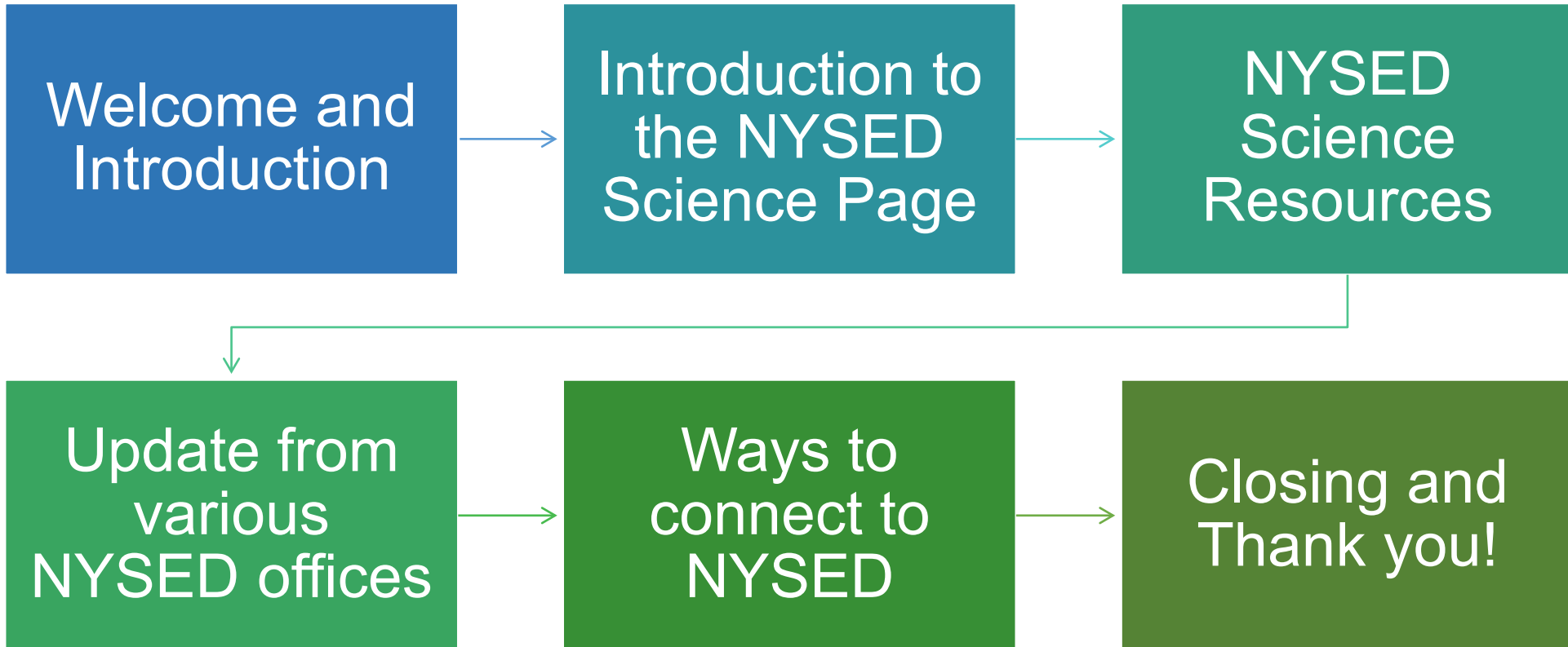


NYSED Statewide Science Update

Office of Curriculum and Instruction
March 2022



Agenda





NYS P-12 Science

LEARNING STANDARDS

Welcome!

Please scan the QR code above to be taken to the NYSED Science page.

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Science

The New York State Education Department Office of Curriculum and Instruction provides guidance for the development and implementation of New York State P-12 Science Learning Standards. The purpose of this New York State P-12 Science Learning Standards Implementation Roadmap is to serve as an at-a-glance guide for stakeholder groups to facilitate attainment of the Statewide Strategic Plan for Science. This site is designed to assist in implementation of the current and the transition to new science standards. Resources can be adapted by stakeholders at the local, regional, and state levels.

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Recent Updates

Here are some quick links to newly released science guidance and resources.

- [Science Professional Learning Turnkey Guides \(February 2022\)](#)
- [NYSP12SLS Quick Guide \(February 2022\)](#)
- [Providing Laboratory Activities for Living Environment Part D Virtually During the 2021-22 School Year](#) 📄 (September 2021)
- [Virtual Laboratory Experiences and the 1,200 Minute Science Laboratory Requirement for the 2021-22 School Year](#) 📄 (August 2021)
- [NYSP12SLS Implementation Timeline](#) 📄 (updated April 2021)

Science Standards Implementation Resources

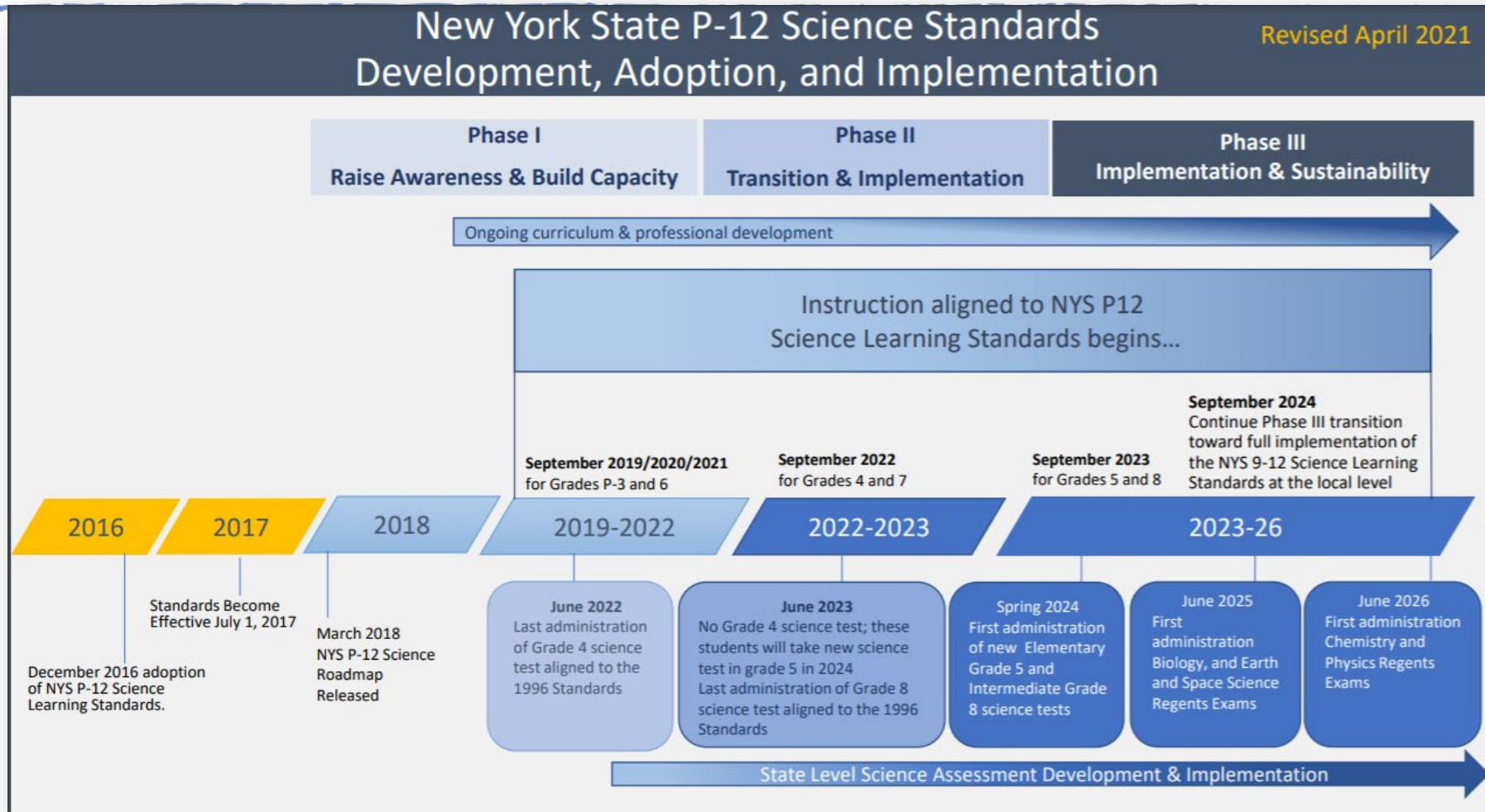


This page houses valuable Science Standards Implementation Resources to assist educators and administrators in local implementation of the New York State P-12 Science Learning Standards (NYSP-12SLS).

These resources support achievement of the vision of the NYSP-12SLS to ensure the teaching and learning of science for all P-12 students by providing equitable access to exemplary teachers, science curriculum programming, instructional practices, and standards-based assessments that are reflective of research and best practices, along with quality resources and support from stakeholders at large.

- [Statewide Strategic Plan for Science and Science Learning Standards](#)
- [Science Implementation Roadmap and Timeline](#)
- [New York State P-12 Science Learning Standards Quick Guide](#)
- [Science Professional Learning Turnkey Guides](#)
- [Science High School Course Maps](#)

Science Implementation Timeline Map (Updated April 2021)





ROADMAP INTRODUCTION

The purpose of this New York State P-12 Science Learning Standards Implementation Roadmap is to serve as an at-a-glance guide for all stakeholder groups to facilitate attainment of the Statewide Strategic Plan for Science. This Roadmap is designed to assist in the transition to the new science standards as a resource that can be adapted by stakeholders at the local, regional, and state levels. Six key component areas as identified below, include a major goal supported by objectives and activities included in the Statewide Strategic Plan for Science. Effective standards implementation requires a system-wide commitment. The activities serve as a connection between the Statewide Strategic Plan for Science and this Roadmap is part of a larger comprehensive science standards systems implementation plan. Specific activities are suggested to be carried out through various actions by all stakeholder groups in a designated timeframe to create consistency across multiple levels over a multi-year, three-phase, implementation process. This roadmap is a tool that can be used to facilitate opportunities to engage every student in quality science education throughout their school career.

• **Outline of Contents**

o **Component areas**

All Phases	Phase I	Phase II	Phase III
<ul style="list-style-type: none"> Standards Curriculum Professional Development to Enhance Instruction Assessment Materials and Resources Support Administrative and Community Support 	<ul style="list-style-type: none"> Standards Curriculum Professional Development to Enhance Instruction Assessment Materials and Resources Support Administrative and Community Support 	<ul style="list-style-type: none"> Standards Curriculum Professional Development to Enhance Instruction Assessment Materials and Resources Support Administrative and Community Support 	<ul style="list-style-type: none"> Standards Curriculum Professional Development to Enhance Instruction Assessment Materials and Resources Support Administrative and Community Support

o **Stakeholder groups**

- New York State Education Department-NYSED
- Professional Learning Networks, Organizations and Associations
 - Teacher Centers, Department of Environmental Conservation, New York State Cultural Center, Regional Information Centers, STEM Hubs, Professional Associations, Higher Education Institutions, Informal Science Institutions, Business and Industry Partners
- Educational Systems Phase
 - Big 5/BOCES/Districts

o **Phases of implementation/PROPOSED Timeframes**

- **Phase I: Raise Awareness and Build Capacity** 07/2017-08/2019
- **Phase II: Transition and Implementation** 09/2019-08/2023
- **Phase III: Implementation and Sustainability** 09/2023-ongoing

• **General Organization Structure of the Roadmap**

- Each component area is identified by a capital letter (A=Standards), with each objective identified by the component area letter and an objective number (A1=1st Standard objective). Each activity is identified by the key component area, the objective number and a lower-case letter (A1a=first activity within Standards component objective 1).
- A checked box(es) identifies the phase(s) of implementation that an activity should be addressed by stakeholder groups. Activities may be addressed in more than one phase of implementation and may have different actions based on the stakeholder group and phase.

NYS P-12 Science Learning Standards Implementation Roadmap

MST to NYSP12SLS

Learning Standards for Mathematics, Science, and Technology



Revised Edition
March 1996

New York State P-12 Science Learning Standards

P. Physical Sciences

Students who demonstrate understanding can:

- P-PS1-1.** Ask questions and use observations to test the claim that different kinds of matter exist as either solid or liquid. [Clarification Statement: Emphasis should be on observing and describing similarities and differences between solids and liquids based on their physical properties. Solids and liquids can be compared and categorized (sorted) based on these properties.]
- P-PS2-1.** Use tools and materials to design and build a device that causes an object to move faster with a push or a pull.* [Clarification Statement: Emphasis should be on developing an interest in investigating forces (pushes or pulls). Examples of forces could include a string attached to an object being pulled or a ramp to increase the speed of an object.] [Assessment Boundary: Assessment is limited to relative measures of speed (faster, faster).]
- P-PS4-1.** Plan and conduct investigations to provide evidence that sound is produced by vibrating materials. [Clarification Statement: Examples of vibrating materials could include percussion instruments (e.g. drum, triangle), string instruments (e.g. guitar, piano), wind instruments (e.g. recorder, whistle), and audio speakers.]

The performance expectations above were developed using the following elements from the NYC document *A Framework for K-12 Science Education*

Science and Engineering Practices	Disciplinary Core Ideas	Crosscutting Concepts
Asking Questions and Defining Problems Asking questions and defining problems in grades PK-2 builds on prior experiences and progresses to simple descriptive questions that can be tested. • Ask questions based on observations to find more information about the designed world. (P-PS1-1) Planning and Carrying Out Investigations Planning and carrying out investigations to answer questions or test solutions to problems in PK-2 builds on prior experiences and progresses to simple investigations, based on fair tests, which provide data to support explanations or design solutions. • With guidance, plan and conduct an investigation in collaboration with peers. (P-PS2-1),(P-PS4-1) Analyzing and Interpreting Data Analyzing data in PK-2 builds on prior experiences and progresses to collecting, recording, and sharing observations. • Record information (observations, thoughts, and ideas). (P-PS1-1) • Analyze data from tests of an object or tool to determine if it works as intended. (P-PS2-1)	PS1.A: Structure and Properties of Matter • (NYSE) Different kinds of matter exist and many of them can be either solid or liquid. Matter can be described, categorized, and sorted by its observable properties. (P-PS1-1) PS2.A: Forces and Motion • Pushes and pulls can have different strengths and directions. (P-PS2-1) • Pushing or pulling on an object can change the speed or direction of its motion and can start or stop it. (P-PS2-1) PS3.C: Relationship Between Energy and Forces • (NYSE) A push or a pull may cause stationary objects to move, and a stronger push or pull in the same or opposite direction makes an object in motion speed up or slow down more quickly. (secondary to P-PS2-1) PS4.A: Wave Properties • Sound can make matter vibrate, and vibrating matter can make sound. (P-PS4-1) ETS1.A: Defining Engineering Problems • A situation that people want to change or create can be approached as a problem to be solved through engineering. Such problems may have many acceptable solutions. (P-PS2-1)	Patterns • Patterns in the natural and human designed world can be observed and used as evidence. (P-PS1-1),(P-PS4-1) Cause and Effect • Simple tests can be designed to gather evidence to support or refute student ideas about causes. (P-PS2-1),(P-PS4-1)
Connections to Nature of Science Scientific Investigations Use a Variety of Methods • Scientists use different ways to study the world. (P-PS2-1),(P-PS4-1)		
Connections to other DCIs in grade/department: P.LS1.A (P-PS2-1); P.LS1.D (P-PS4-1) Articulation of DCIs across grades K-1: K.PS1.A (P-PS1-1); K.PS2.A (P-PS2-1); K.PS2.B (P-PS2-1); K.PS2.C (P-PS2-1); 1.PS4.A (P-PS4-1) New York State Next Generation Learning Standards Connections: ELA/Literacy-- PKR1 Participate in discussions about a text. (P-PS1-1),(P-PS2-1),(P-PS4-1) PKW1 Exhibit an interest in learning new vocabulary. (P-PS2-1),(P-PS2-1),(P-PS4-1) PKW2 Use a combination of drawing, dictating, oral expression, and/or emergent writing to name a familiar topic and supply information in child-centered, authentic, play-based learning. (P-PS1-1),(P-PS2-1),(P-PS4-1) PKW3 Use a combination of drawing, dictating, oral expression, and/or emergent writing to name an event or events in a sequence. (P-PS1-1),(P-PS2-1),(P-PS4-1) PKW7 Engage in a discussion using gathered information from experiences or provided resources. (P-PS1-1),(P-PS2-1),(P-PS4-1) PKSL2 Interact with diverse formats and texts. (P-PS1-1),(P-PS2-1),(P-PS4-1) PKSL3 Identify the speaker. (P-PS1-1),(P-PS2-1),(P-PS4-1) PKSL5 Create a visual display. (P-PS1-1),(P-PS2-1),(P-PS4-1) Mathematics-- MP.4 Model with mathematics. (P-PS2-1) MP.5 Use appropriate tools strategically. (P-PS1-1),(P-PS2-1),(P-PS4-1) MP.6 Attend to precision. (P-PS2-1) NY-PK.MD.1 Identify measurable attributes of objects, such as length or weight, and describe them using appropriate vocabulary. (P-PS2-1) NY-PK.MD.2 Sort objects and shapes into categories; count the objects in each category. 1 (limit category counts to be less than or equal to 10) (P-PS1-1) NY-PK.G.3 Explore two- and three-dimensional objects and use informal language to describe their similarities, differences, and other attributes. (P-PS1-1) NY-PK.G.4 Create and build shapes from components (e.g., sticks and clay balls). (P-PS2-1)		

*Connection boxes updated as of September 2018

*The performance expectations marked with an asterisk integrate traditional science content with engineering through a Practice or Disciplinary Core Idea. The text in the "Disciplinary Core Ideas" section is reproduced verbatim from *A Framework for K-12 Science Education: Practices, Cross-Cutting Concepts, and Core Ideas* unless it is preceded by (NYSE).

Page 1

New York State P-12 Science Learning Standards Quick Guide

New York State P-12 Science Learning Standards Quick Guide

What are the New York State P-12 Science Learning Standards (NYSP12SLS)?

Adapted from the Next Generation Science Standards in 2016, the NYSP12SLS are a series of performance expectations that define what students should understand and be able to do because of their study of science. The NYSP12SLS are based on the Framework for K-12 Science Education developed by the National Research Council and the Next Generation Science Standards as well as guiding documents grounded in the most current research in science and scientific learning. These standards reflect the importance of every student's engagement with natural scientific phenomenon at the nexus of three dimensions of learning: Science and Engineering Practices, Disciplinary Core Ideas, and Crosscutting Concepts.

What are the three dimensions of the New York State P-12 Science Learning Standards?

Below is a quick introduction to the Science and Engineering Practices, Disciplinary Core Ideas, and Crosscutting Concepts. For more information, please visit the Introduction to the New York State P-12 Science Learning Standards at <http://www.nysed.gov/common/nysed/files/programs/curriculum-instruction/nyscienceintro.pdf>.

Science and Engineering Practices	Disciplinary Core Ideas	Crosscutting Concepts
<ul style="list-style-type: none"> Science and Engineering Practices describes (a) the major practices that scientists employ as they investigate and build models and theories about the world and (b) a key set of engineering practices that engineers use as they design and build systems. Listed below are the eight Science and Engineering practices from the Framework: <ol style="list-style-type: none"> Asking questions and defining problems Developing and using models Planning and carrying out investigations Analyzing and interpreting data Using mathematics and computational thinking Constructing explanations and designing solutions Engaging in argument from evidence Obtaining, evaluating, and communicating information 	<ul style="list-style-type: none"> Disciplinary Core Ideas are built on the notion of learning as a developmental progression. They are designed to help children continually build on and revise their knowledge and abilities, starting from their curiosity about what they see around them and their initial conceptions about how the world works. The goal is to guide their knowledge toward a more scientifically based and coherent view of the natural sciences and engineering, as well as of the ways in which they are pursued and their results can be used. 	<ul style="list-style-type: none"> Crosscutting Concepts are meant to give students an organizational structure to understand the world and help students make sense of and connect Core Ideas across disciplines and grade bands. Listed below are the seven Crosscutting Concepts from the Framework: <ol style="list-style-type: none"> Patterns Cause and Effect Scale, Proportion, and Quantity Systems and System Models Energy and Matter in Systems Structure and Function Stability and Change of Systems

Q&A for Science Educators

Q: When will the New York State P-12 Science Learning Standards (NYSP12SLS) and their corresponding state assessments be implemented? The [implementation timeline](#) can be found at found on the [NYSED Science Curriculum and Instruction](#) website. Visit <http://www.nysed.gov/common/nysed/files/programs/curriculum-instruction/science-timeline.pdf>

Q: Are there High School Course maps in Science? Yes, there are NYSP12SLS aligned [High School course maps for Biology, Earth and Space Sciences, Chemistry, and Physics](#). Visit <http://www.nysed.gov/curriculum-instruction/science-high-school-course-maps> to access the High School Course maps in Science.

Q: Where can I learn more about NYSP12SLS? You can learn more about the [NYS P-12 Science Learning Standards](#) by visiting the [NYSED web site](#). Visit <http://www.nysed.gov/curriculum-instruction/science-learning-standards>

NYSP12SLS
 e Sciences PS: Physical Science
 e The Application of Science
 s: as seen in the NYSED High School Science Course maps.

ork State P-12 Science Learning Standards.
 Learning Standards document for more information.

Learning Standards

title

he typical weather conditions expected during a

2) (single temperature, precipitation, and wind direction.) (assessment

3) Assessment does not include climate change.)

ifferent regions of the world. (Clarification Statement

nduces the impacts of a weather-related hazard.*

Qual includes barriers to ground flooding, wind resistant roofs, and lightning

nections between weather and water processes in

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2) See the Introduction of Framework for K-12 Science Education

3) See the Introduction of Framework for K-12 Science Education

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Assessment Boundary

Clarifies limitations to large-scale assessments.

Clarification Statement

Provides additional clarification for the performance expectation.

Foundation Boxes

Include pertinent Science and Engineering Practices, Disciplinary Core Ideas, and Crosscutting Concepts to further define the performance expectations. Codes in parentheses designate which of the performance expectations incorporate that practice, idea, or concept.

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Make a claim about the merit of a design solution that reduces content with engineering through a Practice or Disciplinary

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Science and Engineering Practices	Disciplinary Core Ideas	Crosscutting Concepts
⇒ Science and Engineering Practices describes (a) the major practices that scientists employ as they investigate and build models and theories about the world and (b) a key set of engineering practices that engineers use as they design and build systems. ⇒ Listed below are the eight Science and Engineering practices from the Framework: <ol style="list-style-type: none"> 1. Asking questions and defining problems 2. Developing and using models 3. Planning and carrying out investigations 4. Analyzing and interpreting data 5. Using mathematics and computational thinking 6. Constructing explanations and designing solutions 7. Engaging in argument from evidence 8. Obtaining, evaluating, and communicating information 	⇒ Disciplinary Core Ideas are built on the notion of learning as a developmental progression. They are designed to help children continually build on and revise their knowledge and abilities, starting from their curiosity about what they see around them and their initial conceptions about how the world works. ⇒ The goal is to guide their knowledge toward a more scientifically based and coherent view of the natural sciences and engineering, as well as of the ways in which they are pursued and their results can be used.	⇒ Crosscutting Concepts are meant to give students an organizational structure to understand the world and help students make sense of and connect Core Ideas across disciplines and grade bands. ⇒ Listed below are the seven Crosscutting Concepts from the Framework: <ol style="list-style-type: none"> 1. Patterns 2. Cause and Effect 3. Scale, Proportion, and Quantity 4. Systems and System Models 5. Energy and Matter in Systems 6. Structure and Function 7. Stability and Change of Systems

Q&A for Science Educators

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Q: Where can I learn more about NYSP12SLS? You can learn more about the [NYS P-12 Science Learning Standards](#) by visiting the NYSED web site. Visit <http://www.nysed.gov/curriculum-instruction/science-learning-standards>

Frequently Asked Questions about the NYSP12SLS

A breakdown of the three dimensions of the NYSP12SLS

Definitions of the structure of the standards are provided.

NYS ED **NYS P-12 Science LEARNING STANDARDS**

LS: Life Science **The Domains of NYSP12SLS** PS: Physical Science
 ETS: Engineering, Technology, and the Application of Science

NOTE: NYSED has divided the PS domain into Chemistry and Physics as seen in the NYSED High School Science Course maps.

Below is an example of the organization of the [New York State P-12 Science Learning Standards](#). Please visit the [Introduction to the New York State P-12 Science Learning Standards](#) document for more information.

New York State P-12 Science Learning Standards

3. Weather and Climate

Students who demonstrate understanding can:

- 3-ESS2-1. Represent data in tables and graphical displays to describe typical weather conditions expected during a particular season. [Clarification Statement: Examples of data could include average temperature, precipitation, and wind direction.] [Assessment Boundary: Assessment of graphical displays is limited to pictographs and bar graphs. Assessment does not include climate change.]
- 3-ESS2-2. Obtain and combine information to describe climates in different regions of the world. [Clarification Statement: Examples should be on various climates in different regions rather than on localized weather conditions.]
- 3-ESS3-1. Make a claim about the merit of a design solution that reduces the impacts of a weather-related hazard.* [Clarification Statement: Examples of design solutions to weather-related hazards could include barriers to prevent flooding, wind resistant roofs, and lightning rods.]
- 3-ESS2-3. Plan and conduct an investigation to determine the connections between weather and water processes in Earth systems. [Clarification Statement: Emphasis should be on the processes that connect the water cycle and weather patterns.]

The performance expectations above were developed using the following elements from the NRC document *A Framework for K-12 Science Education*:

Science and Engineering Practices	Disciplinary Core Ideas	Crosscutting Concepts
Planning and Carrying Out Investigations Planning and carrying out investigations to answer questions or test solutions to problems in 3-5 builds on K-2 experiences and progresses to include investigations that control variables and provide evidence to support explanations or design solutions. <ul style="list-style-type: none"> Plan and conduct an investigation collaboratively to produce data to serve as the basis for evidence, using fair tests in which variables are controlled and the number of trials considered. (3-ESS2-3) Make observations and/or measurements to produce data to serve as the basis for evidence for an explanation of a phenomenon or test a design solution. (3-ESS2-1) 	ESS2.D: Weather and Climate <ul style="list-style-type: none"> Scientific record patterns of the weather across different times and areas so that they can make predictions about what kind of weather might happen next. (3-ESS2-1) Climate describes a range of an area's typical weather conditions and the extent to which these conditions vary over years. (3-ESS2-2) (NYSED) Earth's processes continuously cycle water, contributing to weather and climate. (3-ESS2-3) ESS2.B: Natural Hazards <ul style="list-style-type: none"> A variety of natural hazards result from natural processes. Humans cannot eliminate natural hazards but can take steps to reduce their impacts. (3-ESS3-1) (Note: This Disciplinary Core Idea is also addressed by 4-ESS3-2) 	Patterns <ul style="list-style-type: none"> Patterns of change can be used to make predictions. (3-ESS2-1)(3-ESS2-2) Cause and Effect <ul style="list-style-type: none"> Cause and effect relationships are routinely identified, tested, and used to explain change. (3-ESS2-2)(3-ESS2-3) Connections to Engineering, Technology, and Application of Science <ul style="list-style-type: none"> Influence of Engineering, Technology, and Science on Society and the Natural World <ul style="list-style-type: none"> (NYSED) Engineers improve existing techniques or develop new ones to increase their benefits (e.g., improved Doppler radar), decrease known risks (e.g., severe weather alerts), and meet societal demands (e.g., cell phone applications). (3-ESS3-1)

Assessment Boundary
Clarifies limitations to large-scale assessments.

Clarification Statement
Provides additional clarification for the performance expectation.

Foundation Boxes
Include pertinent Science and Engineering Practices, Disciplinary Core Ideas, and Crosscutting Concepts to further define the performance expectations. Codes in parentheses designate which of the performance expectations incorporate that practice, idea, or concept.

Title
Indicates grade level or grade band and Topic Area.

Performance Expectations
Includes each performance expectation for that grade level/Topic Area and Clarification Statement and/or Assessment Boundary, as appropriate.

Performance Expectation Code
References the aligned expectation in the 3 dimensions.

Connection Boxes
Include connections to other Disciplinary Core Ideas within the same grade level, articulations of Disciplinary Core Ideas across grade levels, and connections to State Standards in Mathematics and English Language Arts and Literacy.

Please note:

- The highlighted performance expectations (i.e., 3-ESS2-3) are expectations that are different from the Next Generation Science Standards.
- The performance expectations marked with an asterisk (i.e., 3-ESS3-1. Make a claim about the merit of a design solution that reduces the impacts of a weather-related hazard.*) integrate traditional science content with engineering through a Practice or Disciplinary Core Idea.
- The text in the "Disciplinary Core Ideas" section is reproduced verbatim from A Framework for K-12 Science Education: Practices, Cross-Cutting Concepts, and Core Ideas unless it is preceded by (NYSED), (i.e. (NYSED) Earth's processes continuously cycle water, contributing to weather and climate. (3-ESS2-3))

New York State Education Department • Office of Curriculum and Instruction • E-Mail: ScienceStandards@nysed.gov • Phone: 518-474-5922

Special codes and notations found are defined in one spot.

What is a...

Science and Engineering Practices

The major practices that scientists employ as they investigate and build models and theories about the world. Also, a key set of engineering practices that engineers use as they design and build systems.

Disciplinary Core idea

Designed to help children continually build on and revise their knowledge and abilities, starting from their curiosity about what they see around them and their initial conceptions about how the world works.

Crosscutting Concept

Give students an organizational structure to understand the world and help students make sense of and connect Core Ideas across disciplines and grade bands.

- ☰ Science
- Science Updates
- Science Learning Standards
- Science Standards Implementation Resources ▾
 - Strategic Plan & Learning Standards
 - Implementation Roadmap and Timeline
 - New York State P-12 Science Learning Standards Quick Guide
 - ▶ Science Professional Learning Turnkey Guides
 - High School Course Maps
 - Additional Implementation Resources
- Science Resources ▶
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Science Professional Learning Turnkey Guides

The science professional learning turnkey guides provide educators, administrators, and science stakeholder groups with guidance and resources that will direct the work for the implementation the New York State P-12 Science Learning Standards (NYSP12SLS) in New York State classrooms. Each guide provides an optional presentation, instructional steps, and guidance so educators and administrators may facilitate training on various aspects of the New York State P-12 Science Learning Standards within their own professional communities.

- An Introduction to the New York State P-12 Science Learning Standards
 - [Turnkey Guide for An Introduction to the New York State P-12 Science Learning Standards](#)
 - [An Introduction to the New York State P-12 Science Learning Standards](#) (Optional PowerPoint Presentation)
- An Introduction to the NYSED Science Page and Resources
 - [Turnkey Guide for An Introduction to the NYSED Science Page and Resources](#)
 - [An Introduction to the NYSED Science Page and Resources](#) (Optional PowerPoint Presentation)
- An Introduction to the Integrating Science and Language for All Students with a Focus on English Language Learners Series
 - [Turnkey Guide for An Introduction to the Integrating Science and Language for All Students with a Focus on English Language Learners Series](#)
 - [Introduction Webinar - Integrating Science and Language for All Students with a Focus on English Language Learners](#)

Questions pertaining to the implementation of the New York State P-12 Science Learning Standards may be directed to the Office of Curriculum and Instruction via email to ScienceStandards@nysed.gov or via telephone to (518) 474-5922.



NYSED Turnkey Guidance: An Introduction to the New York State P-12 Science Learning Standards

Goal: To provide educators with an introduction to the New York State P-12 Science Learning Standards (NYSP12SLS).

PowerPoint Presentation:

- [An Introduction to the New York State P-12 Science Learning Standards PowerPoint](#)

Materials Needed:

- [Introduction to the New York State P-12 Science Learning Standards](#)
- [New York State P-12 Science Standards Development, Adoption, and Implementation Timeline](#)
- [The New York State P-12 Science Learning Standards Quick Guide](#)
- [New York State P-12 Science Learning Standards](#)

Instructions:

- Prior to the presentation, it is suggested that the educators receive the above linked sites. You may want to encourage them to review the sites before beginning the presentation.
- Links are embedded where necessary.
- Allocate appropriate time for each stop based on the number of educators and any time constraints.
- Please read all directions before presenting so that you are aware of the layout and expectations.

NYSED Turnkey Guidance: An Introduction to the NYSED Science Page and Resources

Goal: To provide educators, administrators, and science stakeholder groups with guidance and resources that will support the implementation of the New York State P-12 Science Learning Standards (NYSP12SLS).

PowerPoint Presentation:

- [An Introduction to the NYSED Science Page PowerPoint](#)

Materials Needed:

- [NYSED Science Page](#)
- [NYSED Science Updates](#)
- [New York State P-12 Science Learning Standards](#)
- [NYSED State Science Resource Network](#)
- [High School Course Maps](#)
- [Parent Resource for Science](#)
- [The New York State P-12 Science Learning Standards Quick Guide](#)

Instructions:

- Prior to the presentation, it is suggested that the educators receive the above linked web sites. You may want to encourage them to review the links before beginning the presentation.
- Links are embedded where necessary.
- Allocate appropriate time for each stop based on the number of educators and any time constraints.
- Please read all directions before presenting so that you are aware of the layout and expectations.

NYSED Turnkey Guidance: Introduction to the Integrating Science and Language for All Students with a Focus on English Language Learners series

Goal: To provide educators with an introduction to the *Integrating Science and Language for All Students with a Focus on English Language Learners* webinar and brief series.

Materials needed:

- [Introduction Webinar – Integrating Science and Language for All Students with a Focus on English Language Learners](#)

Optional Materials:

- [Integrating Science and Language for All Students with a Focus on English Language Learners](#) webpage
 - includes links to webinars and seven topic briefs created by the New York State Education Department (NYSED) by New York University (NYU) researchers Dr. Okhee Lee, Lorena Liosa, Alison Haas, and Scott Grapin to promote the implementation of New York State P-12 Science Learning Standards and build the instructional capacity of ELL and science educators
- [New York State P-12 Science Learning Standards \(NYSP12SLS\)](#)

Instructions:

- Prior to the presentation, it is suggested that the educators receive the above linked pages. You may want to encourage them to review the pages before beginning the presentation.
- Links are embedded where necessary.
- Allocate appropriate time for each stop based on the number of educators and any time constraints.
- Please read all directions before presenting so that you are aware of the layout and expectations.

New Science Turnkey Guides

NYSED Turnkey Guidance: An Introduction to the New York State P-12 Science Learning Standards

Goal: To provide educators with an introduction to the New York State P-12 Science Learning Standards (NYSP12SLS).

PowerPoint Presentation:

- [An Introduction to the New York State P-12 Science Learning Standards PowerPoint](#)

Materials Needed:

- [Introduction to the New York State P-12 Science Learning Standards](#)
- [New York State P-12 Science Standards Development, Adoption, and Implementation Timeline](#)
- [The New York State P-12 Science Learning Standards Quick Guide](#)
- [New York State P-12 Science Learning Standards](#)

Instructions:

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- Links are embedded where necessary.
- Allocate appropriate time for each stop based on the number of educators and any time constraints.
- Please read all directions before presenting so that you are aware of the layout and expectations.



An Introduction to the New York State P-12 Science Learning Standards



NYSED Turnkey Guidance: An Introduction to the NYSED Science Page and Resources

Goal: To provide educators, administrators, and science stakeholder groups with guidance and resources that will support the implementation of the New York State P-12 Science Learning Standards (NYSP12SLS).

PowerPoint Presentation:

- [An Introduction to the NYSED Science Page PowerPoint](#)

Materials Needed:

- [NYSED Science Page](#)
- [NYSED Science Updates](#)
- [New York State P-12 Science Learning Standards](#)
- [NYSED State Science Resource Network](#)
- [High School Course Maps](#)
- [Parent Resource for Science](#)
- [The New York State P-12 Science Learning Standards Quick Guide](#)

Instructions:

- Prior to the presentation, it is suggested that the educators receive the above linked web sites. You may want to encourage them to review the links before beginning the presentation.
- Links are embedded where necessary.
- Allocate appropriate time for each step based on the number of educators and any time constraints.
- Please read all directions before presenting so that you are aware of the layout and expectations.



An Introduction to the Office of Curriculum and Instruction Science Page



NYSED Turnkey Guidance:

Introduction to the Integrating Science and Language for All Students with a Focus on English Language Learners series

Goal: To provide educators with an introduction to the **Integrating Science and Language for All Students with a Focus on English Language Learners (ELLs)** webinar and brief series.

Materials needed:

- [Introduction Webinar – Integrating Science and Language for All Students with a Focus on English Language Learners](#)

Optional Materials:

- [Integrating Science and Language for All Students with a Focus on English Language Learners](#) webpage
 - includes links to webinars and seven topic briefs created by the New York State Education Department (NYSED) by New York University (NYU) researchers Dr. Okhee Lee, Lorena Llosa, Alison Haas, and Scott Grapin to promote the implementation of New York State P-12 Science Learning Standards and build the instructional capacity of ELL and science educators
- [New York State P-12 Science Learning Standards \(NYSP12SLS\)](#)

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**INTEGRATING SCIENCE AND LANGUAGE FOR ALL STUDENTS
WITH A FOCUS ON ENGLISH LANGUAGE LEARNERS:
INTRODUCTION TO WEBINAR AND BRIEF SERIES**

OKHEE LEE | NEW YORK UNIVERSITY
IN COOPERATION WITH
NYS EDUCATION DEPARTMENT OFFICE OF BILINGUAL EDUCATION AND WORLD LANGUAGES
NYS EDUCATION DEPARTMENT OFFICE OF CURRICULUM AND INSTRUCTION

A Parent's Guide to the New York State P-12 Learning Standards

A Parent's Guide to the New York State P-12 Science Learning Standards



What are the New York State P-12 Science Learning Standards?

The NYS P-12 Science Learning Standards are the educational goals for all of New York State's students from prekindergarten through Grade 12 in Science.

What is Science and why is it important for my child?

Science is the scientific approach to understanding the natural world. Among these are a demand for explanations supported by claims and evidence that are testable. Branches of P-12 science education include: life science, physical science, as well as Earth and space sciences.

Over the past several decades, streams of research studies, reports, policies, and publications have documented the benefits of students' science education to better prepare them for the workforce and college pathways. Careers in Science, Technology, Engineering, and Mathematics (STEM) will only grow in the next decade, making it essential for accessibility to equitable learning opportunities for all students to excel.

When will the NYS P-12 Science Learning Standards be implemented?

The implementation timeline can be found at found on the [Science Curriculum and Instruction](#) website.

How can I learn more?

You can learn more about the [NYS P-12 Science Learning Standards](#) by talking to your child's teacher or visiting our NYSED web site.

Scan the QR code to access this flyer on the NYSED web site for live links.

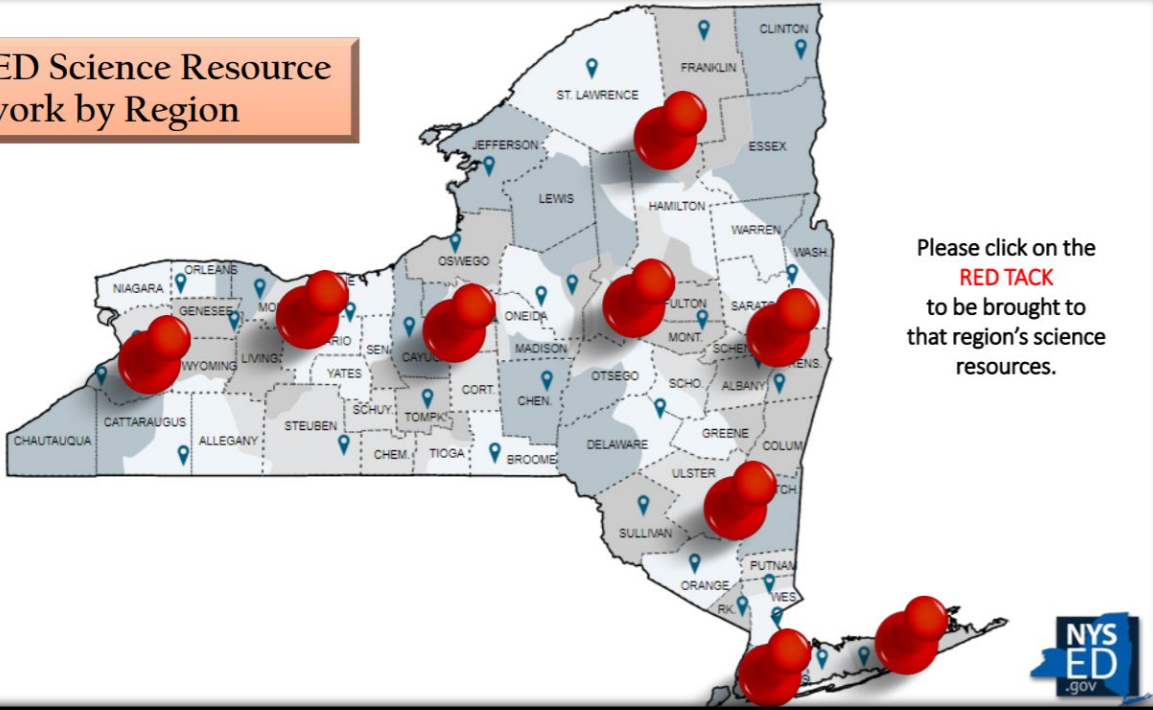


Parent Resources

Supporting Learning at Home

- ⇒ [New York State Science Standards Implementation Resources](#)
- ⇒ [New York State Parent Teacher Association \(PTA\) Parent Resources](#)
- ⇒ [Resources for Parents of Students with Disabilities](#)
- ⇒ [Multilingual Learner/English Language Learner Parent Resources](#)
- ⇒ [New York State Education Department Office of Curriculum & Instruction](#)
Email: EMSCURRIC@nysed.gov

NYSED Science Resource Network by Region



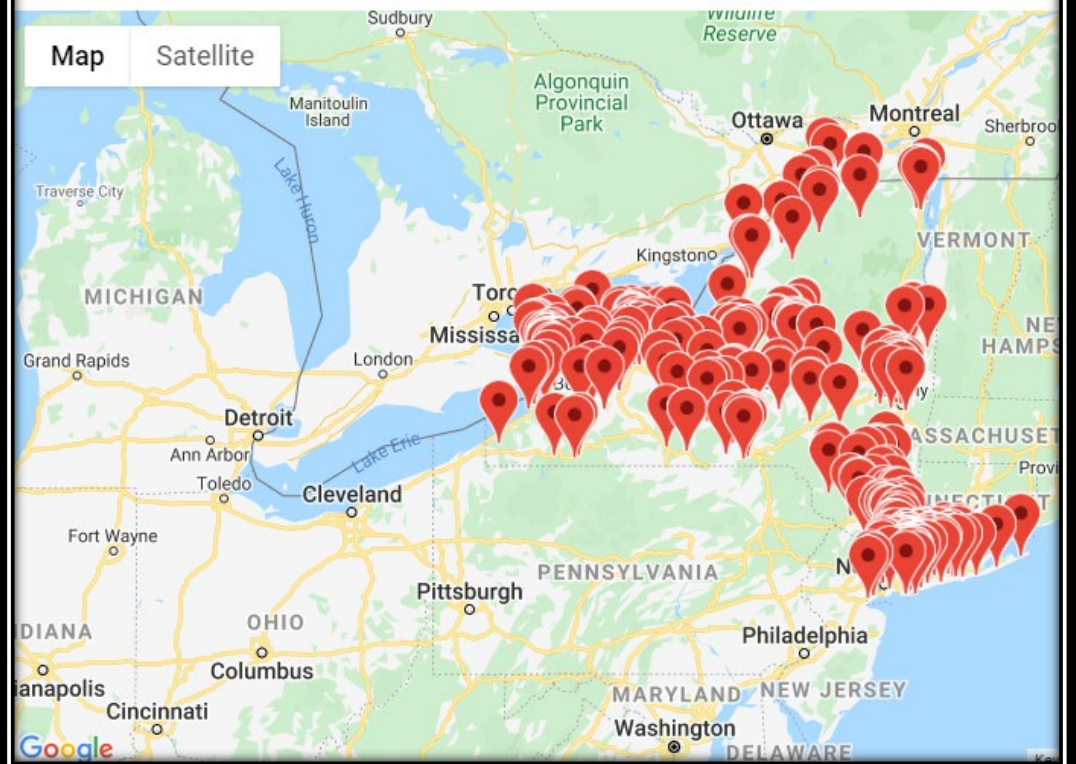
Please click on the **RED TACK** to be brought to that region's science resources.

Search by Organization Type

- Any -

Submit

Reset All



NYSED Statewide Science Resource Network

SCIENCE High School Course Maps

- Aligned to new Regents examinations in science
- Aligned to the New York State P-12 Science Learning Standards
- Includes:
 - [Earth and Space Sciences](#)
 - [Life Sciences: Biology](#)
 - [Physical Sciences: Chemistry](#)
 - [Physical Sciences: Physics](#)



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

OFFICE OF CURRICULUM AND INSTRUCTION
Room 860 EBA
Phone: (518) 474-5922

Science High School Course Maps for [Physical Sciences: Physics](#) Courses that will Culminate in a Corresponding Regents Examination in Science

Background

The New York State P-12 Science Learning Standards are based on guiding documents ([A Framework for K-12 Science Education](#)¹ and the [Next Generation Science Standards](#)²) grounded in the most current research in science and scientific learning. They reflect the importance of every student's engagement with natural scientific phenomenon at the nexus of three dimensions of learning: Science and Engineering Practices, Disciplinary Core Ideas, and Cross-cutting concepts. Performance expectations are the way to integrate the three dimensions



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Table 1 contains the recommended performance expectations for guiding curriculum programming and instruction within four high school science courses aligned to Regents examinations. Please note: no course sequences have been assumed in this model and the map does not preclude other performance expectations from being taught.

Example Course Map Information					
Topic	PE #	A Framework for K-12 Science Education: Scientific and Engineering Practices	A Framework for K-12 Science Education: Disciplinary Core Ideas	A Framework for K-12 Science Education: Crosscutting Concepts	For performance expectations that appear in more than one course the specific concepts for the performance expectation within this course are outlined.
Topic area the Performance expectation is categorized under.	Performance expectation number	Scientific and Engineering Practice that is apart of the Performance Expectation.	Disciplinary Core Idea that is apart of the Performance Expectation.	Crosscutting Concept that is apart of the Performance Expectation.	Information provided for ONLY performance expectations that appear in more than 1 high school course.

Physical Sciences: Physics -Instructional sequences are not assumed-					
Topic Area	PE #	K-12 Science Education Framework: Scientific and Engineering Practices	K-12 Science Education Framework: Disciplinary Core Ideas	K-12 Science Education Framework: Crosscutting Concepts	For performance expectations that appear in more than one course. The specific concepts for the performance expectation within this course are outlined.
HS. Structure and Properties of Matter	HS-PS1-8.	Developing and Using Models	PS1.C: Nuclear Process	Energy and Matter	Scale of energy released.
HS. Forces and Interactions	HS-PS2-1.	Analyzing and Interpreting Data	PS2.A: Forces and Motion	Cause and Effect	

NYSED Webpages Relevant To Science Education



☰ Science
Science Updates
Science Learning Standards
Science Standards Implementation Resources ▶
Science Resources ▼
State Science Resource Network
Science Education Network and Interactive Map
Integrating Science and Language for All Students with a Focus on English Language Learners
Section 809_5 Waiver: Humane Treatment of Animals
School Chemical Management and Storage Guidelines
▶ NYSED Science Webpages
Science Memos, Waivers, and Guidance
Parent Resources for Science
Science FAQ
Science Assessments
Science Student /Educator Awards and Scholarships

NYSED Webpages Relevant to Science Education

This webpage houses links to science resources from other offices within the New York State Education Department.

The Office of Career and Technical Education

[The Office of Career and Technical Education](#) (CTE) programs provide academic and technical instruction in the content areas of agriculture, business and marketing, family and consumer sciences, health sciences, trade and technical education, and technology education.

- [Integrated and Specialized Academics](#) - As a part of NYSED-approved CTE program application process, schools can request approval to include integrated or specialized academic credit within a CTE program. Integrated and specialized courses are not required for NYSED program approval but are options that are available to approved programs.

If you have any questions please email: EMSCCTE@nysed.gov

The Office of Early Learning

[The Office of Early Learning](#) (OEL) provides oversight and technical support to school districts in the development, implementation and evaluation of programs and policies related to educating students in prekindergarten to third grade that are aligned with the NYS Board of Regents Early Childhood Policy. OEL supports the Office of Curriculum and Instruction in ensuring the New York State P-12 Science Learning Standards, resource materials, and recommended best practices are developmentally appropriate for all students prekindergarten - Grade 3.

- [Resource Guides for School Success in Early Learning](#)

The New York State Resource Guides for School Success in Early Learning are grade-specific resources (pre-k to grade 3) that consolidate all learning standards into one comprehensive document that provides a uniform format to make them easily accessible for teachers, specialists, administrators and parents. From a planning perspective, these documents highlight the importance of addressing children's development and learning across all developmental domains.



- Science
- Science Updates
- Science Learning Standards
- Science Standards Implementation Resources
- Science Resources
- Science Memos, Waivers, and Guidance
- Parent Resources for Science
- Science FAQ
- Science Assessments
- Science Student / Educator Awards and Scholarships
- Science Associations
- Science Archive
- Additional Resources
- Awards and Scholarships
- General Education and Diploma Requirements
- Multiple Pathways
- Teacher Centers
- Contact Us

Science ~ Frequently Asked Questions

The responses presented below are provided to address frequently asked questions related to science education in New York State.

The following source documents may be accessed using the accompanying website links:

- The Regulations of the Commissioner of Education Relating to General Education and Diploma Requirements[#] – Part 100
- Science Learning Standards
- The following support documents are also available from the Department:
 - School Administrators Manual (SAM): Regents Exams



- Learning Standards
- Curriculum / Instruction
- Diploma Requirements
- Laboratory Requirements
- Part 100 Regulations / Other Requirements
- State Assessments
- Contact Information

[PDF version of the Science FAQ](#)

NYSED Science Frequently Asked Questions

Please visit the updated
NYSED Science Frequently Asked Questions page at
<http://www.nysed.gov/curriculum-instruction/science-frequently-asked-questions>

Collaborative Partners



New York State
Teacher Centers



S/CDN Science
Statewide
Framework Group



New York State
Science Education
Consortium



Collaborative Partners



NYSED SCAP

Science Content
Advisor Panel



BIG 5



STANYYS



2022-2023 PAEMST Award Cycle 7-12th grade educators

Nominations open:
Fall 2022

The Nation's Highest Honors for Teachers of
Science, Technology, Engineering, and Mathematics
(STEM, including Computer Science)

Please visit www.paemst.org for more information.

New York

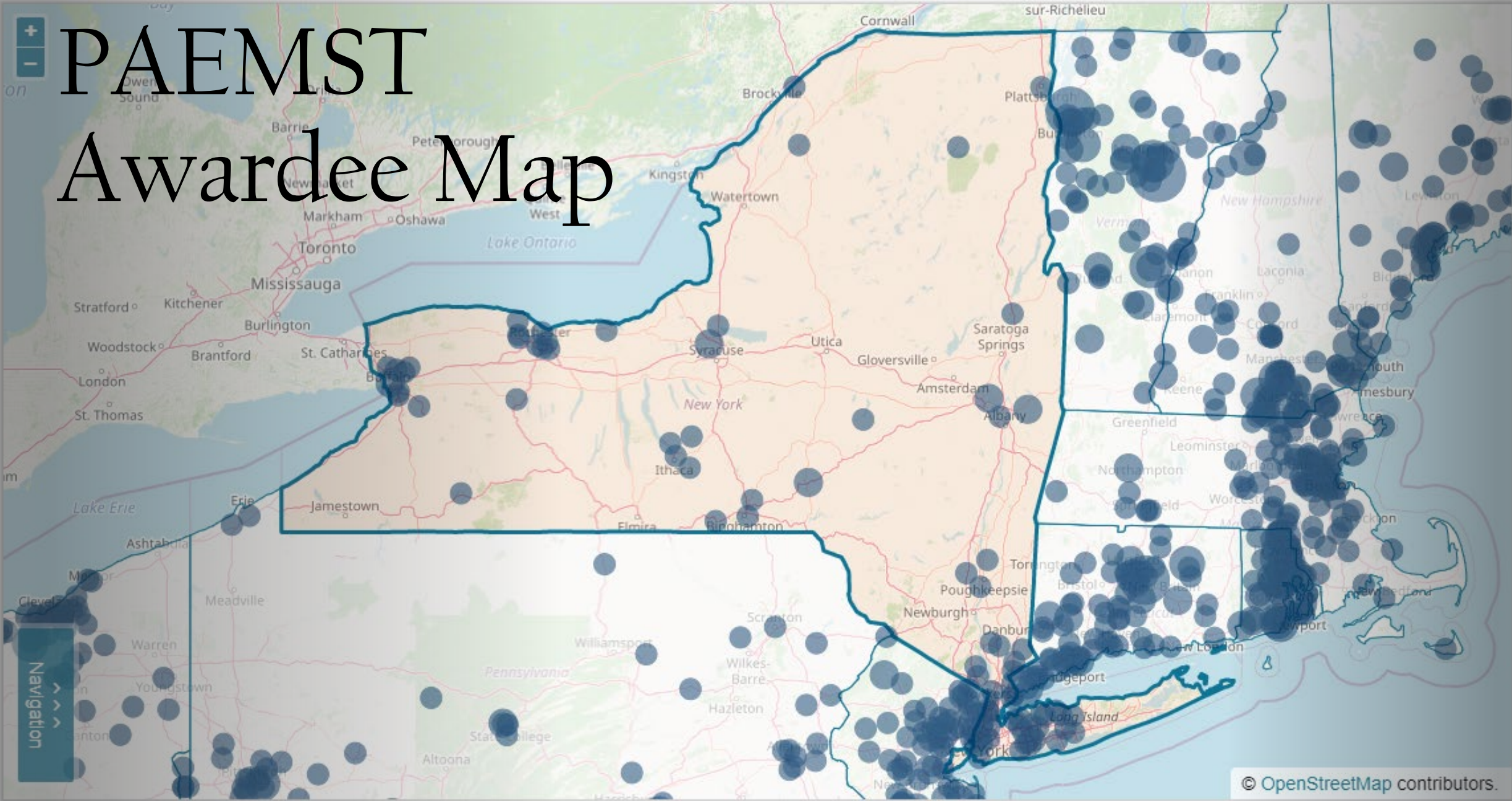
- Filter by Expertise -

- Filter by Grade Range -

- Filter by Award Year -

Clear Filters

PAEMST Awardee Map



Navigation

PAEMST ANNOUNCEMENT

Congratulations

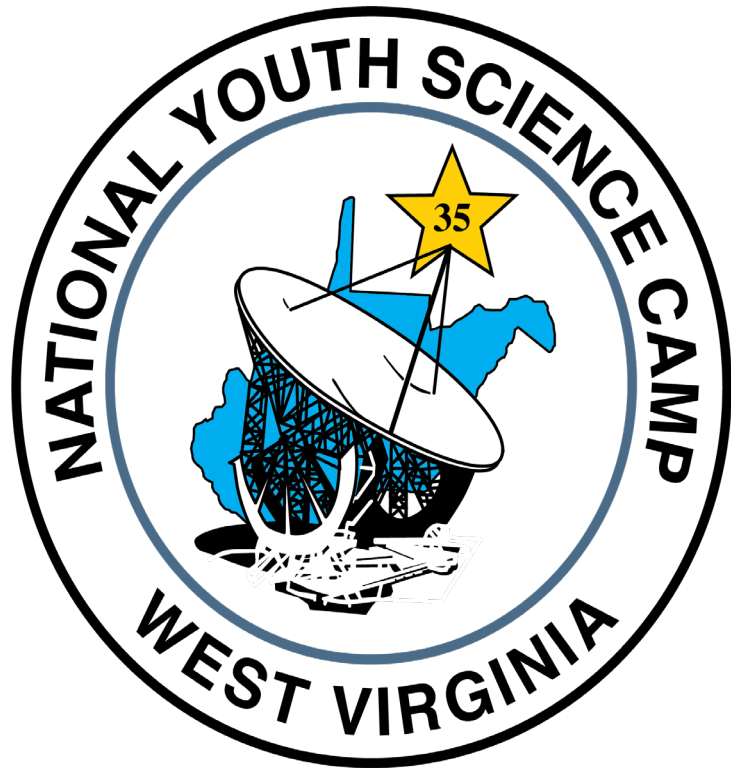
to our newest

PAEMST State Finalists

**NEW YORK 2021
Presidential Award for
Excellence in Math and
Science Teaching
State Finalists**

- Kristen Drury
- Dr. Sarah English
- Dr. Brittany Kozlenko

National Youth Science Camp



The National Youth Science Camp (NYSCamp) is a residential science education program for young STEM enthusiasts the summer after they graduate from high school.

To be selected, you must be a graduating high school senior in the United States (Two each from every state and Washington, D.C.) and students 16-18 years of age in selected other countries.

Students who are selected will attend the NYSCamp FREE of charge.

The 2022 NYSCamp will be held in Summer 2022; the selected must be able to attend the entire program - no exceptions.

Application deadline is March 31st, 2022.

For more information about the program, please visit the NYSCamp's web site at <http://www.nyscamp.org> or our [NYSED Science Award and Scholarships](#) page.


Appalachian STEM Academy


The Appalachian Regional Commission (ARC), in collaboration with the Oak Ridge National Laboratory (ORNL), is sponsoring a two-week residential hands-on learning institute focusing on math, science, and technology for high school students and teachers, and middle school students.


Opportunities include:

- High School Summer Math-Science-Technology Institute for high school students and teachers.
- Middle School Summer Science Academy for middle school students.

Additional information is available on the [ARC/ORNL web site](#) and or our [NYSED Science Awards and Scholarships](#) page.



 **Appalachian Entrepreneurship Academy**
an ARC initiative

 **Appalachian STEM Academy**
at Oak Ridge

Application Deadline Extended to March 18

NYSED Office of Curriculum and Instruction

The screenshot shows the website's navigation bar with links for NYSED, Education Areas, Standards & Curriculum, Assessments, Certification & Licensing, School Business, and Data & Reporting. The main heading is "Curriculum and Instruction" with a sub-header: "The New York State Education Department is responsible for setting student learning expectations (standards) for what all students should know and be able to do as a result of skilled instruction. Each local school district develops curricula based on these established standards." Below this are two columns for "Standards and Curriculum Resources (A-K)" and "Standards and Curriculum Resources (L-Z)". A sidebar on the left lists subjects: Arts, CDOS Standards, Computer Science and Digital Fluency, English Language Arts (ELA), Family and Consumer Sciences, and Health. The main content area is divided into "Guidance and Resources" and "Programs and Initiatives".

Remote/Hybrid Instructional and Learning Resources:
[DIGITAL LEARNING RESOURCES](#)

Diploma Requirements:
[DIPLOMA REQUIREMENTS](#)

[STAYING CONNECTED](#)

- | | | | |
|---|---|--|---|
| Part 100 Regulations | → | Early Learning | → |
| Interstate Compact on Educational Opportunity for Military Children | → | Middle Level Education | → |
| Summer School Handbook | → | School Library Services | → |
| Transfer Student Information | → | Teacher Centers | → |
| AP & IB Fee Waiver Programs | → | Civic Readiness Initiative | → |
| | | Write on, NY! | → |

[SUBSCRIBE FOR UPDATES](#)

[CONTACT US](#)

[A CALL FOR EXPERTISE](#)

[NYSED Office of Curriculum and Instruction](#)

[SUBSCRIBE FOR UPDATES](#)

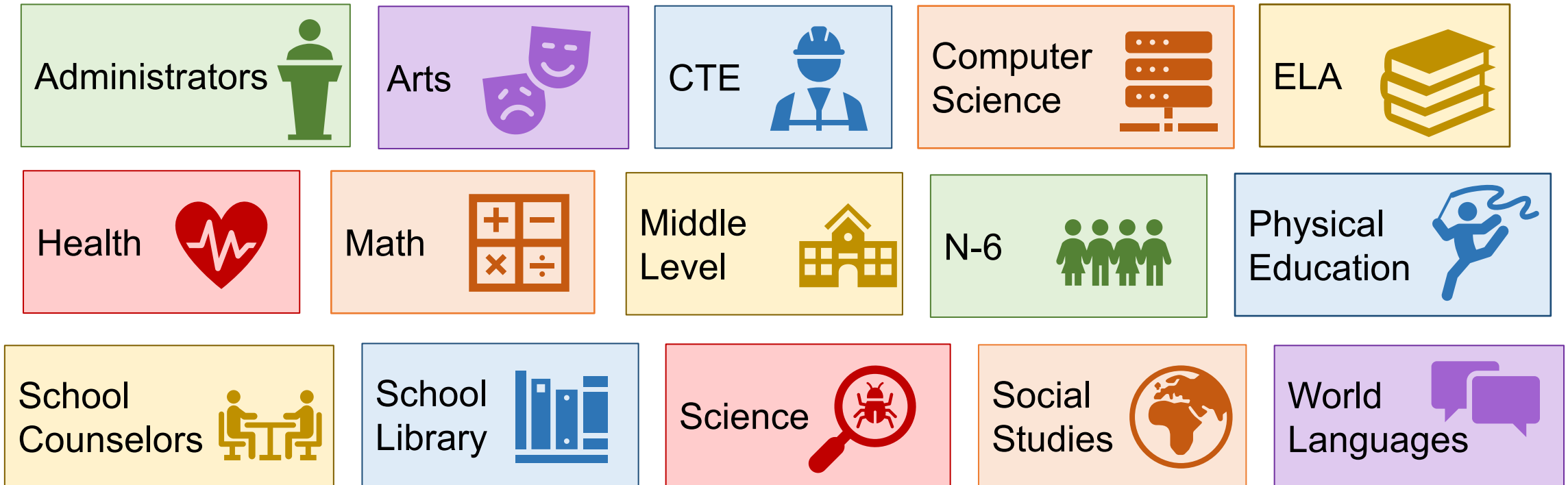
[CONTACT US](#)

[A CALL FOR EXPERTISE](#)



Content Area Notification Service

Join our [Notification Service](#) for news and updates from the Office of Curriculum and Instruction.





Update from the Office of State Assessment



New York State
EDUCATION DEPARTMENT
Knowledge > Skill > Opportunity



SCIENCE LABORATORY EXPERIENCE & REQUIREMENTS

Laboratory experiences are a vital component of any science course.

Students must be prepared for the performance components of the Regents Examinations in science.

- At this time, the four required labs for LE must still be incorporated into the curriculum. These labs cannot be replaced or substituted by another laboratory activity.

In August of 2021, NYSED released a memo entitled **Virtual Laboratory Experiences and the 1,200 Minute Science Laboratory Requirement for the 2021-22 School Year**. This memo provides guidance on the permissibility of virtual laboratory experiences and the 1,200 laboratory minutes requirement for the upcoming 2021-22 school year.

- In the 2021-2022 school year, students are expected to meet the 1,200-minute laboratory requirement, however, the Board of Regents has extended the decision that the 1,200-minute laboratory requirement may be met through a combination of hands-on and simulated laboratory experiences where “such hands-on laboratory experience cannot be met as a result of the COVID-19 crisis”.

Providing Laboratory Activities for Living Environment Part D Virtually During the 2021-22 School Year

The screenshot shows a website interface for High School Science. On the left is a dark blue navigation menu with white text. The main content area is white with orange and blue text. An orange arrow points from the 'Living Environment' section to the specific document title.

High School Regents Examinations

- Past Regents Examinations
- Regents Examination Schedules
- High School Administrator's Manual
- Scoring Information
- English Language Arts
- Mathematics
- Sciences
- Science Reference Tables

High School Science

General Information

- [New York State P-12 Science Standards Development, Adoption, and Implementation](#). For additional information, please visit [New York State Education Department's Curriculum and Instruction](#).
- [Science Reference Tables](#)
- [Past Regents Examinations](#)

Living Environment

- [Laboratory Activities for Living Environment Part D](#)
- [Providing Laboratory Activities for Living Environment Part D Virtually During the 2021-22 School Year](#)
- [Maintaining Integrity of Required Laboratory Activities for Living Environment Part D](#)
- [Part D of the Regents Examination in Living Environment - Update and Sample Questions](#)

- Permission is hereby granted to reproduce, electronically (i.e., scanned) if necessary, the Student Laboratory Packet and the Student Answer Packet in limited quantities for local use in instruction.
- The Teacher's Guides are not to be provided to students and should not be reproduced electronically or shared virtually.

Regents Examination Schedule for June 2022

WEDNESDAY, June 1	WEDNESDAY, June 15	THURSDAY, June 16	FRIDAY, June 17	MONDAY, June 20	TUESDAY, June 21	WEDNESDAY, June 22	THURSDAY, June 23	FRIDAY, June 24
9:15 a.m.	9:15 a.m.	9:15 a.m.	9:15 a.m.	Juneteenth Holiday Observed	9:15 a.m.	9:15 a.m.	9:15 a.m.	RATING DAY
U.S. History and Government (Framework)*	English Language Arts	Algebra I	Global History and Geography II		Geometry	Algebra II	Physical Setting/Physics	
					World Language Assessment suggested date/time: Locally developed Checkpoint A Exams			
	1:15 p.m.	1:15 p.m.	1:15 p.m.		World Language Assessment suggested date/time: Locally developed Checkpoint B Exams	Uniform Admission Deadline Morning Examinations: 10:00 a.m. Afternoon Examinations: 2:00 p.m.		
	Living Environment	Physical Setting/Chemistry	Physical Setting/Earth Science					

Regents Examination Schedule for August 2022

TUESDAY, August 16	WEDNESDAY, August 17
8:30 a.m.	8:30 a.m.
Algebra I English Language Arts	U.S. History and Government (Framework) Physical Setting/Earth Science Physical Setting/Chemistry
12:30 p.m.	12:30 p.m.
Global History and Geography II Algebra II	Geometry Living Environment

New Assessments



Spring 2024

Elementary Level Science Test

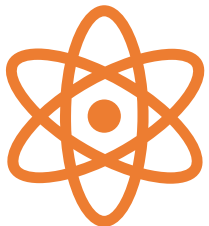
Intermediate Level Science Test



June 2025

Regents Exam in Earth & Space Sciences

Regents Exam in Biology

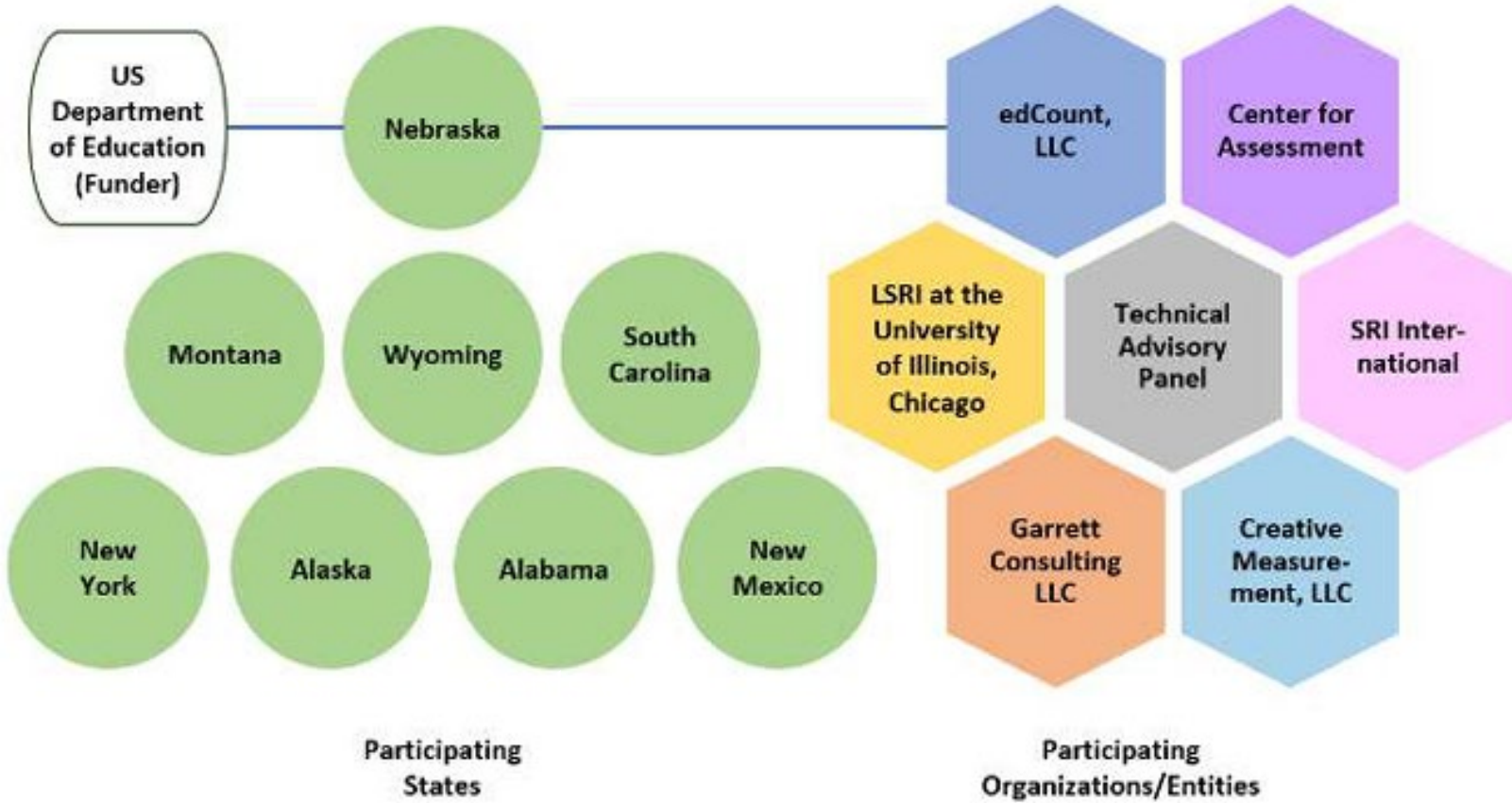


June 2026

Regents Exam in Chemistry

Regents Exam in Physics

[Updated \(April 2021\) Assessment Time-Line for NYS P-12 Science Learning Standards](#)



Stackable,
Instructionally-
Embedded,
Portable Science
(SIPS)
Assessments



Educator Opportunities

Information about opportunities to participate in test development can be found at:

[NEW YORK STATE
EDUCATION
DEPARTMENT
TEACHER
PARTICIPATION
OPPORTUNITIES](#)



Update from the Office of Career and Technical Education

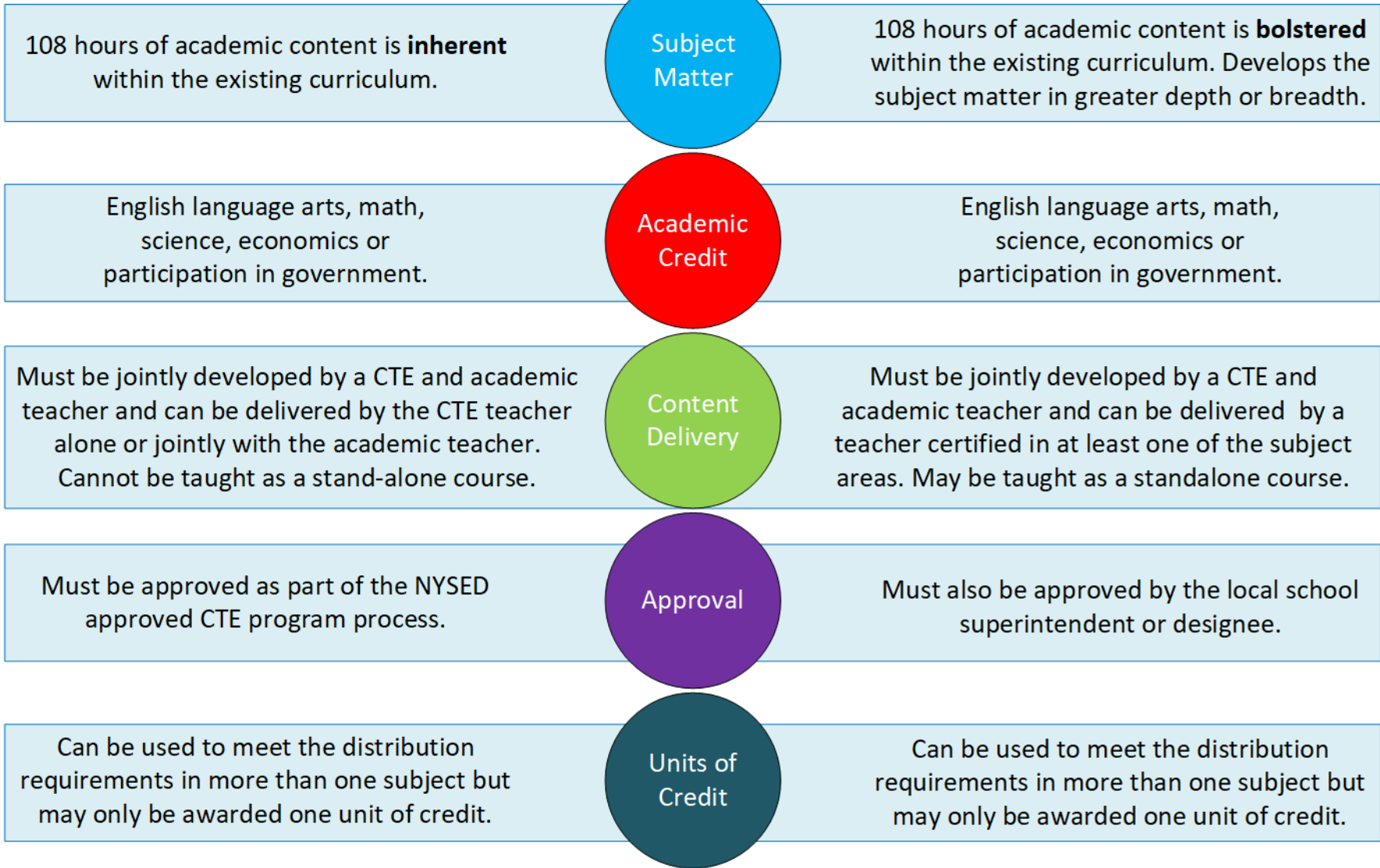


New York State
EDUCATION DEPARTMENT

Knowledge > Skill > Opportunity

Integrated

Specialized



Contact Information:

Brittany Kitterman

Associate in Instructional Services

Office of Career and Technical Education

Brittany.Kitterman@NYSED.gov

Kelsey Roman

Associate in Instructional Services

Office of Career and Technical Education

Kelsey.Roman@NYSED.gov



Update from the Office of Early Learning



New York State
EDUCATION DEPARTMENT
Knowledge > Skill > Opportunity

Office of Early Learning

Responsibilities

- State-Administered Prekindergarten
 - Allocations & Grants
- Grades K – 3
- Voluntary Registered Nursery Schools and Kindergartens

Services

- Application Reviews
- Technical Assistance
 - On-Site Visits
- Guidance
 - Technical & Fiscal
- Reporting & Data



Resource Guides For School Success In Early Learning

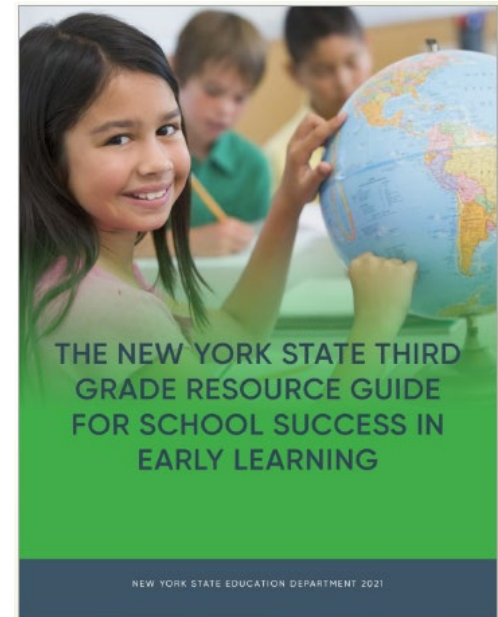
- **Designed in Collaboration with the Office of Curriculum & Instruction**

NYS Science Learning Standards

Title	WEATHER AND CLIMATE
Performance Expectation	3-ESS2-1. Represents data in tables and graphical displays to describe typical weather conditions expected during a particular season.
Clarification Statement	Clarification Statement: Examples of data could include average temperature, precipitation, and wind direction.
Assessment Boundary	Assessment Boundary: Assessment of graphical displays is limited to pictographs and bar graphs. Assessment does not include climate change.

Science Resources

- [NYS Science Resource Network](#)
- [Integrating Science & Language-Topic Briefs](#)
- [NYS Science Learning Standards Implementation Roadmap](#)
- [Science Standards Parent Flyer](#)
 - Translated into 12 languages



Contact us!



NYSED Curriculum and Instruction Website:
www.nysed.gov/curriculum-instruction



NYSED Science website:
<http://www.nysed.gov/curriculum-instruction/science>



NYSED Office of Assessment website:
<http://www.nysed.gov/state-assessment>



Questions pertaining to science curriculum and instruction:
emscurric@nysed.gov



Questions pertaining to science assessment:
emscassessinfo@nysed.gov

Nicole Marschilok
*Associate in Instructional
Services - Science*

Nicole.Marschilok@nysed.gov

Please send question regarding
science standards to

ScienceStandards@nysed.gov

