



NYSED Science Update – Fall 2021

Office of Curriculum and Instruction
Office of State Assessment





NYS P-12 Science

LEARNING STANDARDS

Welcome!

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

[NYSED Science page](#)

NEW: NYSED CURRICULUM AND INSTRUCTION SCIENCE PAGE

Science

Science Updates

Science Learning Standards

Science Standards Implementation Resources

Science Resources

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Science Student /Educator Awards and Scholarships

Science Associations

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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 provide an at-a-glance guide for all stakeholder groups to facilitate implementation of the Statewide Strategic Plan for Science. This site is designed to assist in the implementation of the current and the transition to the new science standards. Resources can be adapted by stakeholders at the local, regional, and state levels.

For information on Copyright Permissions refer to the NYSED's [Permission for Use](#) webpage.

Notable Resources

Here are some quick links to notable science resources.

- [Virtual Laboratory Experiences and the 1,200 Minute Science Laboratory Requirement for the 2021-22 School Year](#) 📅 (August 2021)
- [Integrating Science and Language for All Students with a Focus on English Language Learners](#)
- [NYSP-12SLS Implementation Timeline](#) 📅 (updated April 2021)
- [NYSP-12SLS Parent Informational Flyer](#)
- [NYSP-12SLS State Science Resource Network](#) 📅

NEW: [NYSED WEBPAGES RELEVANT TO SCIENCE EDUCATION](#)



Science

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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

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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

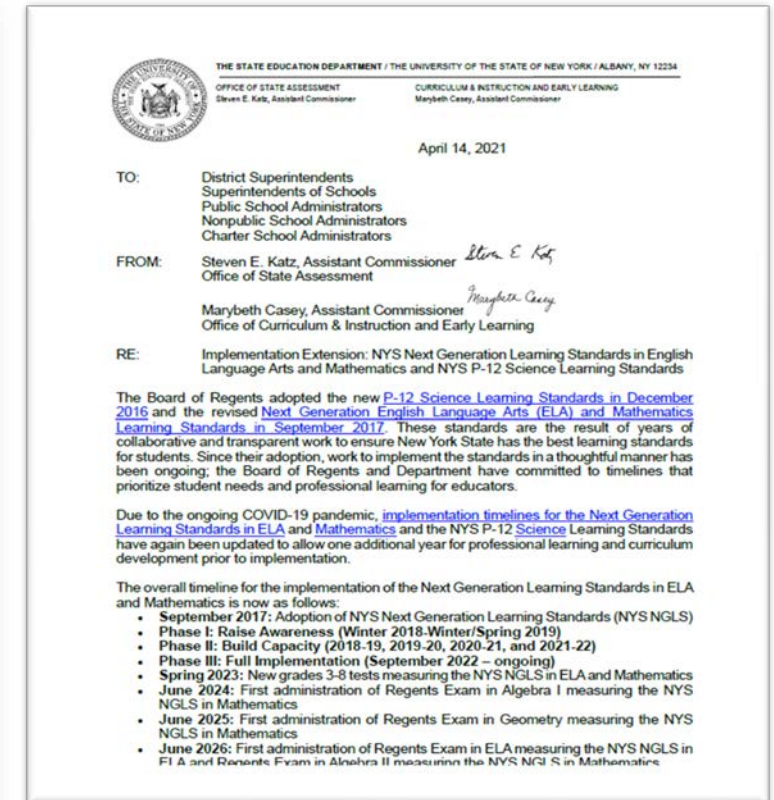
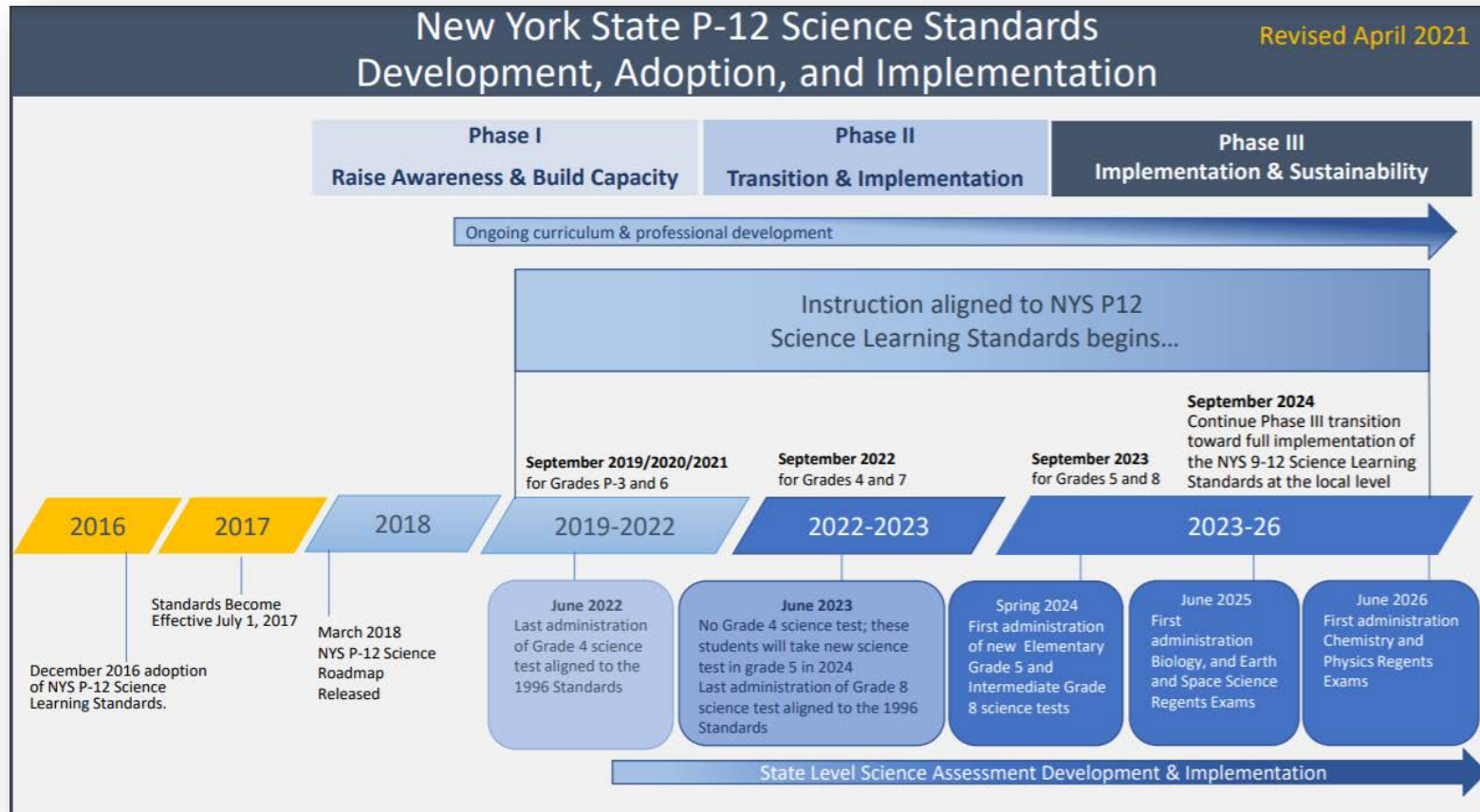
The Office of Early Learning

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 Implementation Timeline Map (Updated April 2021)



NYS P-12 Science Learning Standards

**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**

- 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

- 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

- 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

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 I 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 part of the Performance Expectation.	Disciplinary Core Idea that is part of the Performance Expectation.	Crosscutting Concept that is part 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	



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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

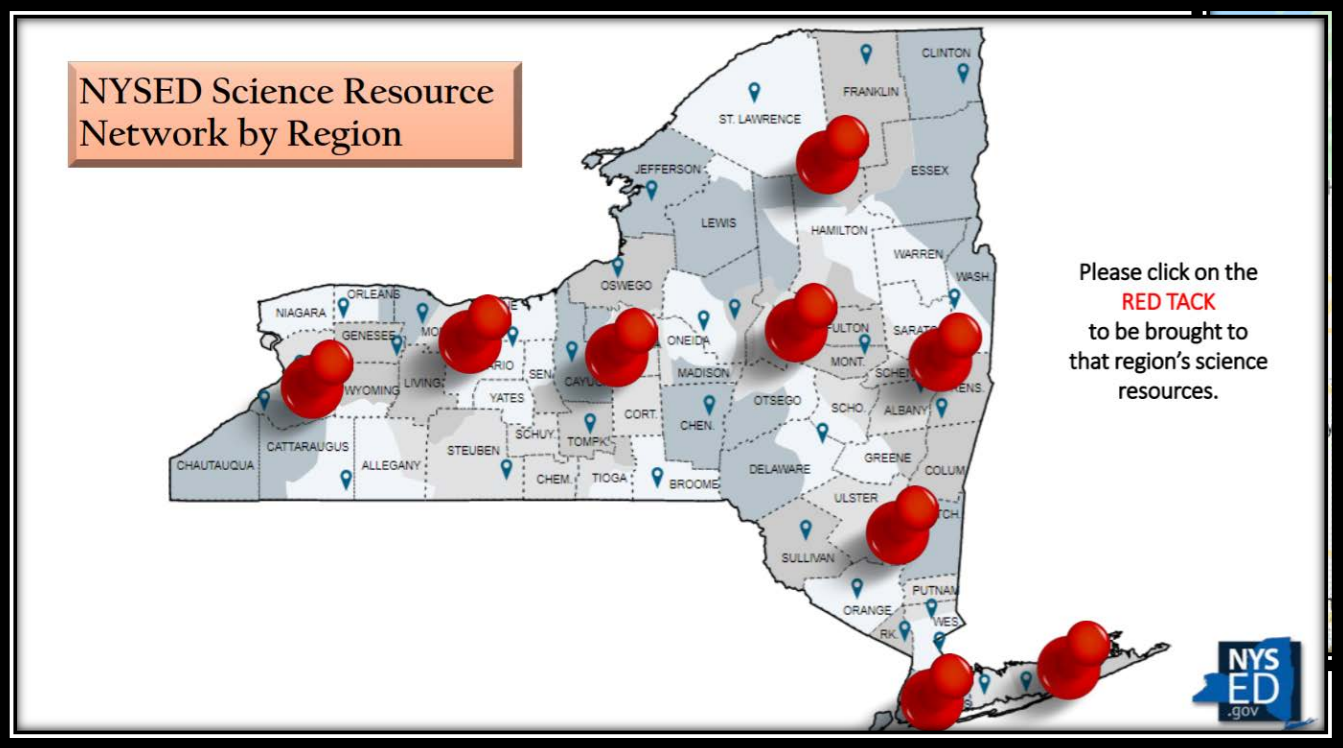
Please visit the updated
NYSED Science Frequently Asked Questions page at
<http://www.nysed.gov/curriculum-instruction/science-frequently-asked-questions>

A map of New York State divided into 17 regions. Each region is labeled with its name: CHAUTAUGUS, CATTARAUGUS, ALLEGANY, STEUBEN, SCHUYLER, TOMPKINS, CHEMUNG, TIOGA, BROOME, DELAWARE, SULLIVAN, ORANGE, PUTNAM, WESTCHESTER, COLUMBIA, GREENE, ALBANY, SCHENECTADY, MONTESSIEUX, SARATOGA, WARREN, HAMILTON, ESSEX, FRANKLIN, CLINTON, ST. LAWRENCE, JEFFERSON, LEWIS, OSWEGO, ONEIDA, MADISON, CAYUGA, SENeca, MONTAIGU, LIVINGSTON, GENESSEE, MOHAWK, NIAGARA, and ORLEANS. Red pushpins are placed on the following regions: CHAUTAUGUS, CATTARAUGUS, ALLEGANY, STEUBEN, SCHUYLER, TOMPKINS, CHEMUNG, TIOGA, BROOME, DELAWARE, SULLIVAN, ORANGE, PUTNAM, WESTCHESTER, COLUMBIA, GREENE, ALBANY, SCHENECTADY, MONTESSIEUX, SARATOGA, WARREN, HAMILTON, ESSEX, FRANKLIN, CLINTON, ST. LAWRENCE, JEFFERSON, LEWIS, OSWEGO, ONEIDA, MADISON, CAYUGA, SENeca, MONTAIGU, LIVINGSTON, GENESSEE, MOHAWK, NIAGARA, and ORLEANS.

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

NYS
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.gov

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NYSED STATE SCIENCE NETWORK UPDATE

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

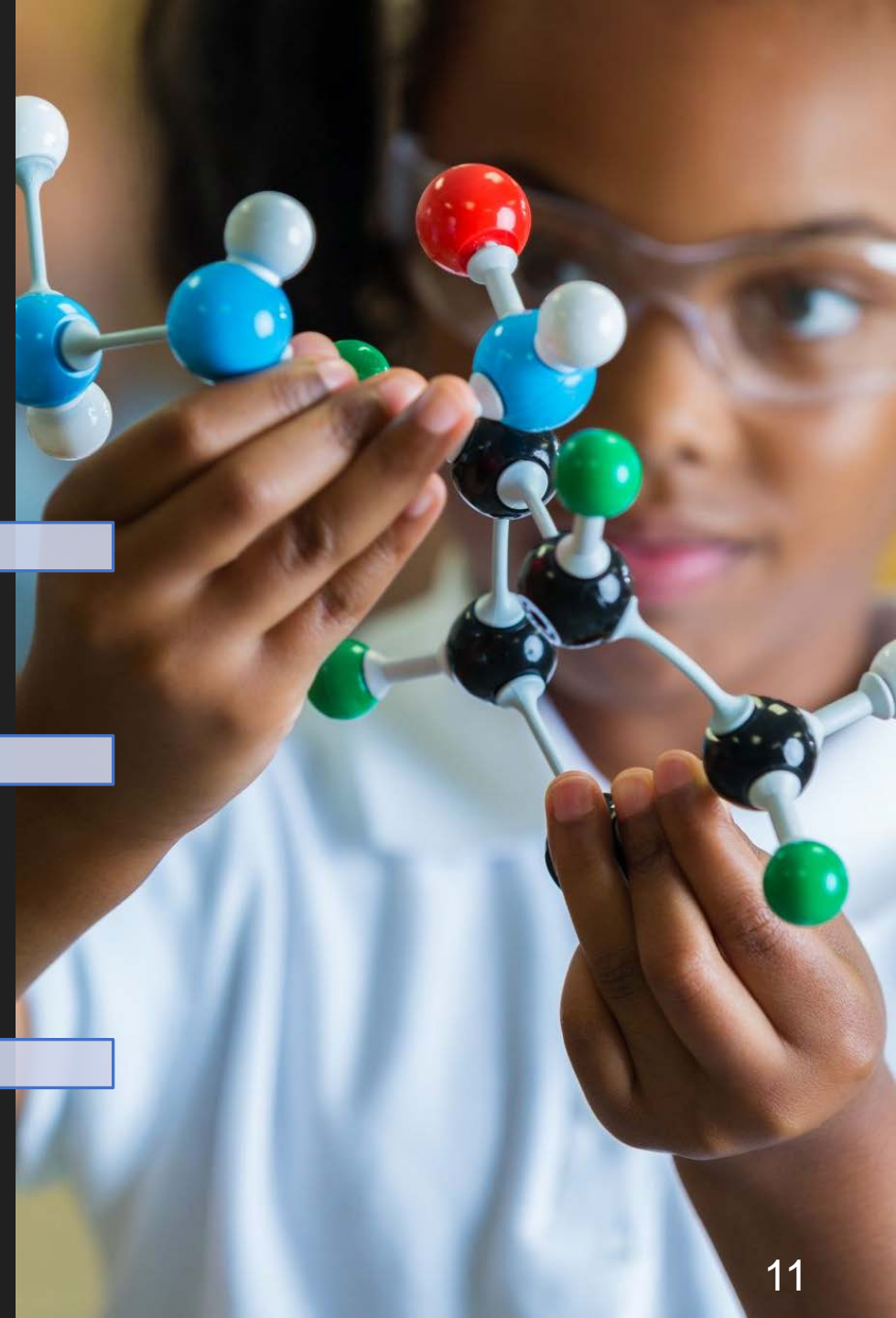
- ⇒ [New York State Science Standards Implementation Resources](#)
- ⇒ [New York State Parent Teacher Association \(PTA\) Parent Resources](#)
- ⇒ [Resources for Parents of Students with Disabilities](#)
- ⇒ [Multilingual Learner/English Language Learner Parent Resources](#)
- ⇒ [New York State Education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

Science Turnkey Guides (IN DEVELOPMENT)

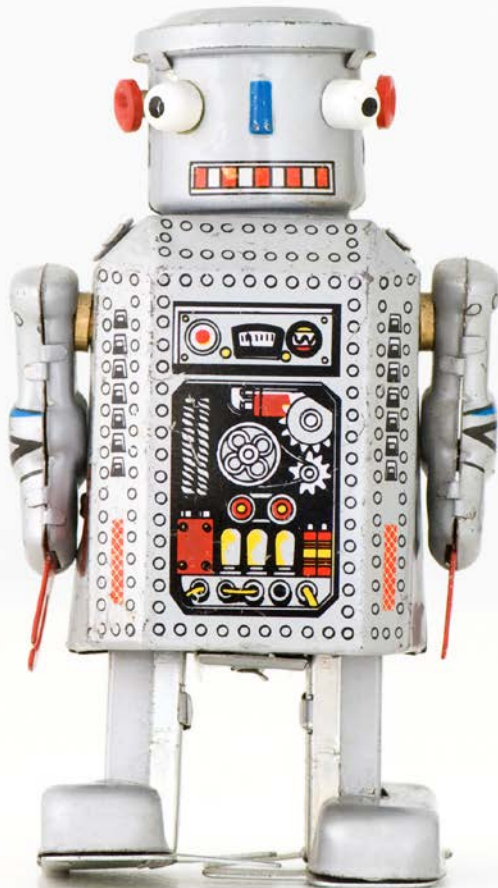
An Introduction to the New York State
P-12 Science Learning Standards

An Introduction to the NYSED Science
Page and Resources

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



In Development



NYSED Science Quick Reference Guide to the New York State P-12 Science Learning Standards

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



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Questions from the Field

Q: Is it acceptable to save laboratory reports electronically for the 2020-2021 school year?

A: It is acceptable for districts to house and for students to submit electronic laboratory reports, as opposed to paper, for Regents science classes. Please make sure you are following any other requirements for laboratory retention as dictated by the Office of State Assessment.

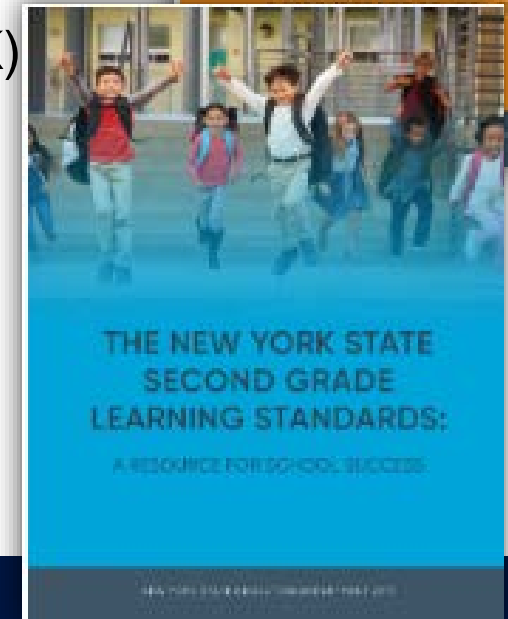
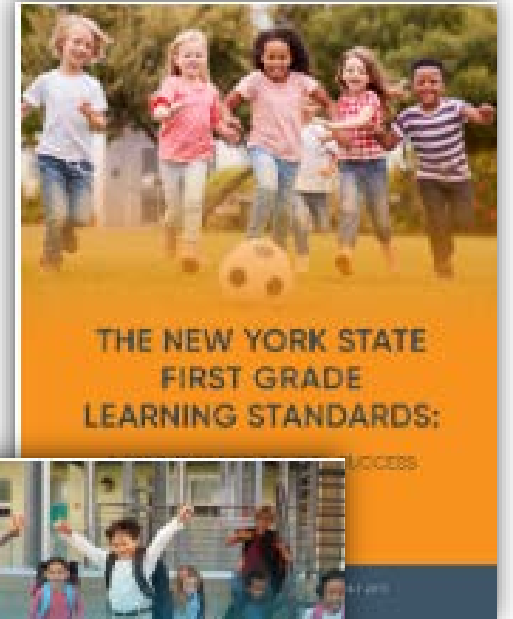
Office of Early Learning

Prekindergarten-Grade 3 Standards Resources

Consolidate all learning standards for PK-3 students into one resource

Include:

- Approaches to Learning
- Social Emotional Learning Benchmarks
- Model Interdisciplinary Unit of Study (PK)
- Unit Planning Template (K-3)



[Early Learning Standards Resources](#)



2021-2022 PAEMST Award Cycle K-6th grade educators

Nominations open:
August 1st, 2021

The deadline to apply:
February 6th, 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

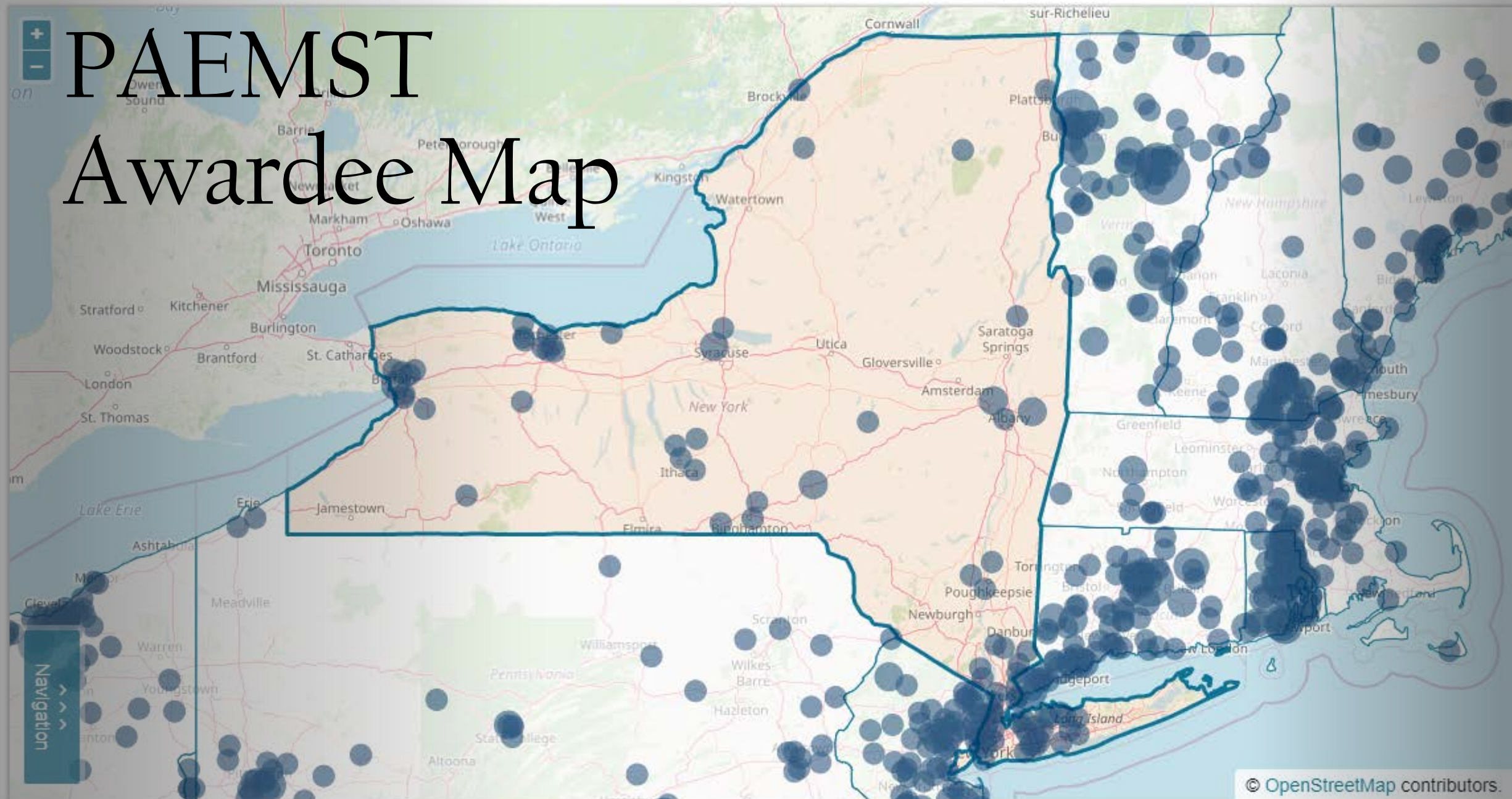
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Clear Filters

PAEMST Awardee Map



PAEMST ANNOUNCEMENT



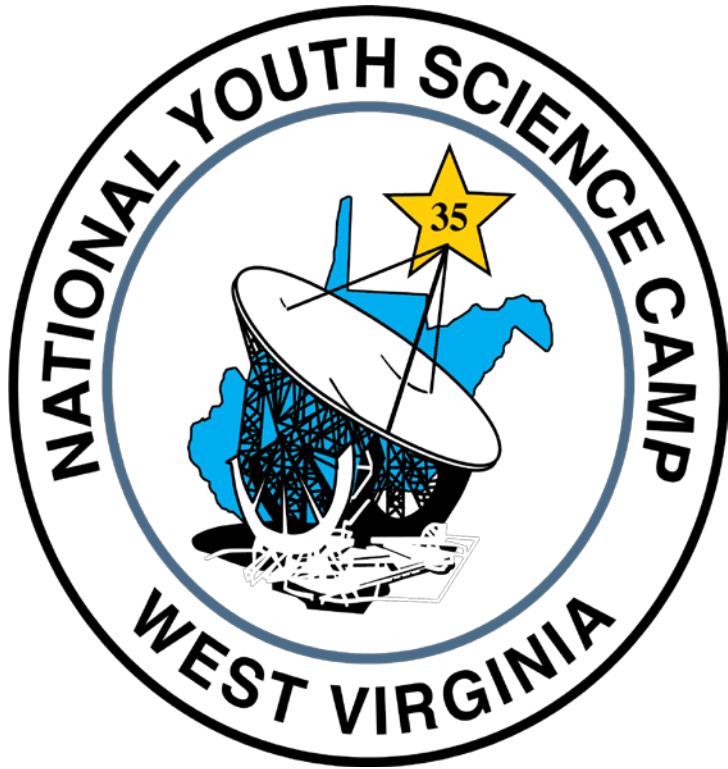
Congratulations

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.

DEADLINE to be announced.

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.

ARC/ORNL Summer 2022 Math-Science-Technology Institute for STEM Teachers and High School Students and STEM Academy for Middle School Students

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.



2019 ARC/ORNL
SUMMER MATH-SCIENCE-TECHNOLOGY INSTITUTE



New York State
EDUCATION DEPARTMENT
Knowledge > Skill > Opportunity



[NYSED](#) [Education Areas](#) [Standards & Curriculum](#) [Assessments](#) [Certification & Licensing](#) [School Business](#) [Data & Reporting](#)

Curriculum and Instruction

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.

Standards and Curriculum Resources (A-K)



- [Arts](#)
- [CDOES Standards](#)
- [Computer Science and Digital Fluency](#)
- [English Language Arts \(ELA\)](#)
- [Family and Consumer Sciences](#)
- [Health](#)

Guidance and Resources



Standards and Curriculum Resources (L-Z)



- [Languages Other than English](#)
- [Mathematics](#)
- [Physical Education](#)
- [Science](#)
- [Social Studies](#)
- [Technology Education](#)

Programs and Initiatives



Remote/Hybrid Instructional and Learning Resources:

[DIGITAL LEARNING RESOURCES](#)

Diploma Requirements and Pathways:

[DIPLOMA REQUIREMENTS](#)

[MULTIPLE PATHWAYS](#)

[STAYING CONNECTED: YOUR STORIES](#)

Recent News

MARCH 19, 2021
[Amendments to NYS Diploma Requirements](#)

OCTOBER 7, 2020
[New Arts Standard Resources Released](#)

JUNE 29, 2020
[Amendment to Section 135.4 of the Regulations of the Commissioner of Education relating to eligibility for participation in interschool competition and inclusive athletic activities for students who have Section 504 or ADA plans](#)

JULY 22, 2020
[2020 Advanced Placement \(AP\) and International Baccalaureate \(IB\) Exam Fee Waiver Program](#)

[VIEW MORE NEWS](#)

[CONTENT AREA NOTIFICATIONS](#)

[CONTACT US](#)

[A CALL FOR EXPERTISE](#)

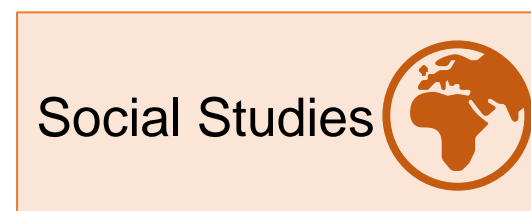
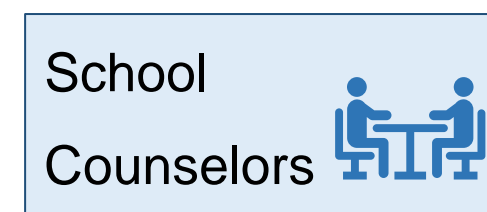
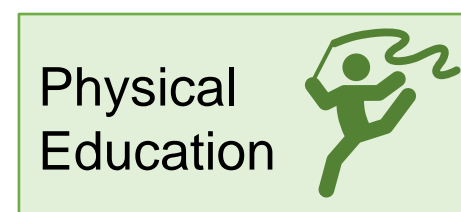
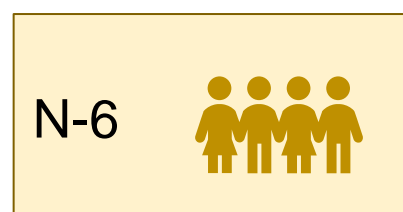
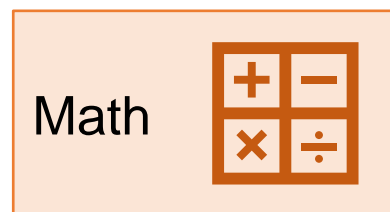
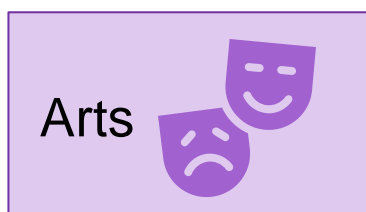
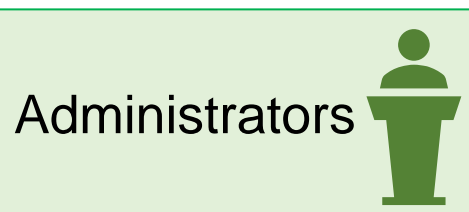
A
CALL
FOR
EXPERTISE

[HTTP://WWW.NYSED.GOV/CURRICULUM-INSTRUCTION](http://www.nysed.gov/curriculum-instruction)



Content Area Notification Service

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





Please send question regarding science curriculum or
standards to

ScienceStandards@nysed.gov



Office of State Assessment Update

SCIENCE LABORATORY EXPERIENCE & REQUIREMENTS



This flexibility is **not** extended to the 2021-22 school year, however, the Board of Regents has extended the period of time during which the 1,200-minute laboratory requirement may be met “through a combination of hands-on and simulated laboratory experience” where “such hands-on laboratory experience cannot be met as a result of the COVID-19 crisis.”

Students who completed a course culminating in a Regents Examination in science during the 2019-20 or 2020-21 school year, including the 2020 and 2021 summer sessions, but were unable to meet the 1,200-minute laboratory requirement due to the COVID-19 crisis, continue to be eligible for admission into future test administrations for that specific Regents Examination.

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

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 January 2022

TUESDAY, January 25	WEDNESDAY, January 26	THURSDAY, January 27	FRIDAY, January 28
9:15 a.m.	9:15 a.m.	9:15 a.m.	9:15 a.m.
English Language Arts	Algebra I Physical Setting/Physics*	Global History and Geography II	Physical Setting/Earth Science Physical Setting/Chemistry
1:15 p.m.	1:15 p.m.	1:15 p.m.	Uniform Admission Deadline Morning Examinations: 10:00 a.m. Afternoon Examinations: 2:00 p.m.
Living Environment	Geometry	Algebra II	

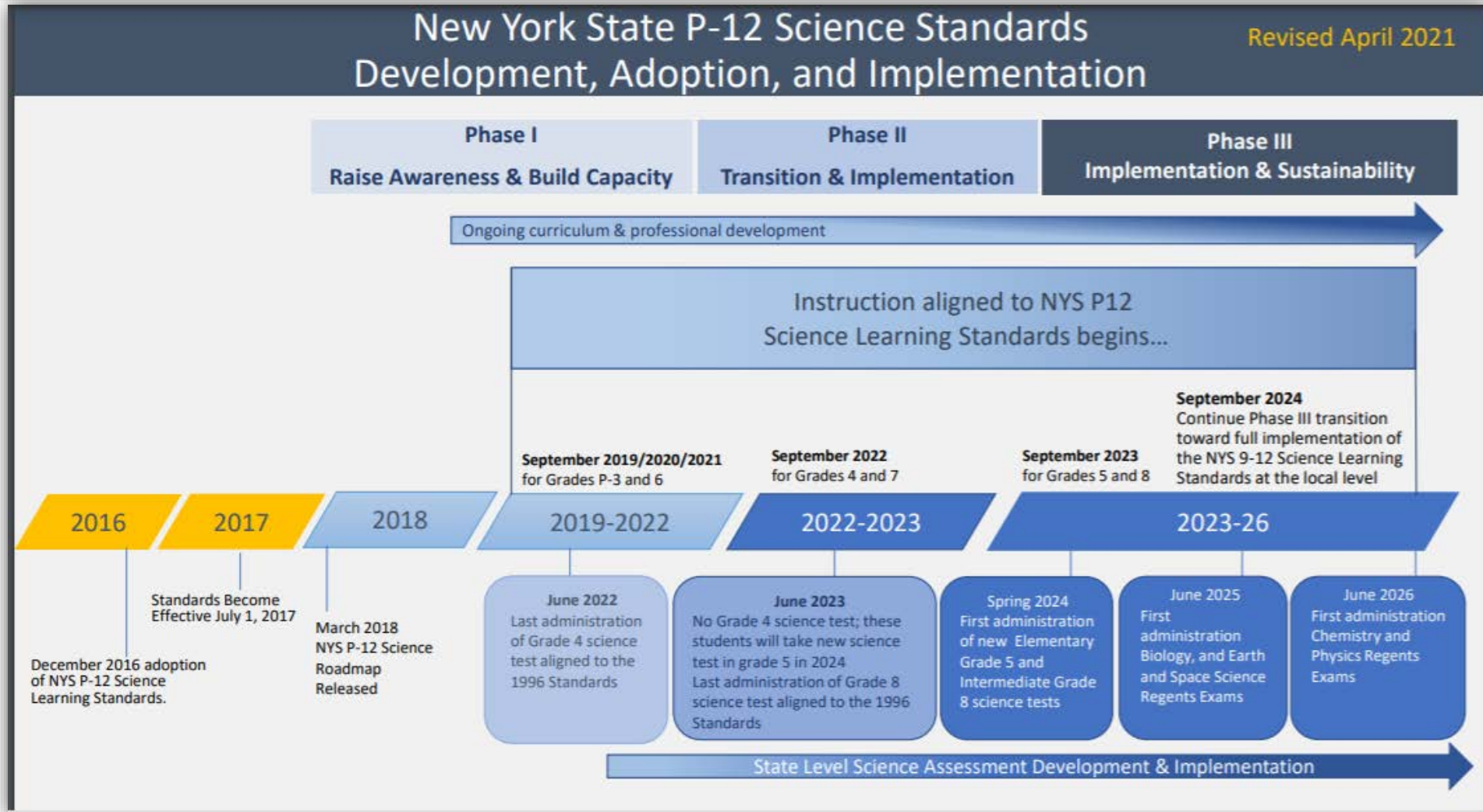
Regents Examination Schedule for June 2022

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 World Language Assessment suggested date/time: Locally developed Checkpoint A Exams	Algebra II	Physical Setting/Physics	
	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

Updated Science Timeline Map



New Assessments



Spring 2024

Elementary Level Science Test

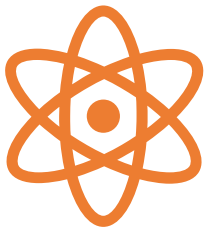
Intermediate Level Science Test



June 2025

Regents Exam in Earth & Space Sciences

Regents Exam in Biology



June 2026

Regents Exam in Chemistry

Regents Exam in Physics

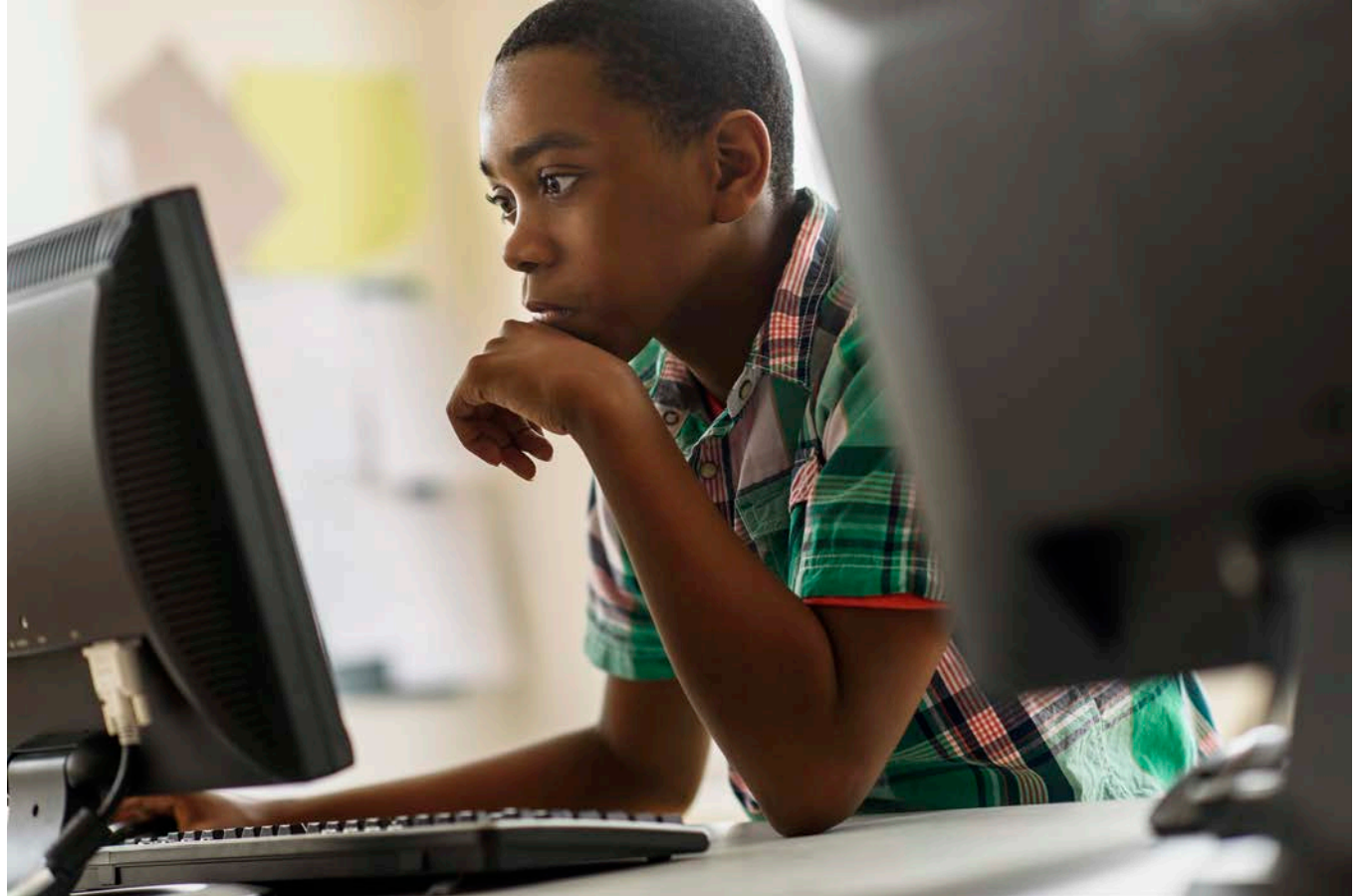
[Updated \(April 2021\) Assessment Time-Line for NYS P-12 Science Learning Standards](#)

Computer Based Testing (CBT) for 5 & 8 Science Field Testing

- New contract with Questar for 3-8 field testing, which will include 5 & 8 Science

Contract started July 1, 2021

- NYSED's hope is to roll out sample items for students to practice CBT
 - These questions have been written by NYS teachers who have undergone our new Item Writing Training and are familiar with CBT items and the structure of them
 - Kick off meeting was in mid- August with Questar



A close-up photograph of a spiral-bound notebook. The notebook is open to a page with a graph. The graph has a vertical axis with numbers 16, 17, 18, and 19, and a horizontal axis with numbers 30 and 19. The spiral binding is visible on the left side of the page.

Projected Release Dates for Resource Materials

Elementary & Intermediate Science

Performance Level Descriptions (PLDs): September 2020

OSA's Elementary- and Intermediate-level Science Webpage

- Claims, Evidence and Additional Materials to follow in the coming 2021-22 School Year
- We expect to follow similar plans for the release of Regents Exam development materials, relative to their first administration dates.

Grade Level and Domain Status Update



Elementary and Intermediate Science:

- Three Dimensional items are being written by NYS educators for field testing (including CBT)
- Curriculum **embedded** Performance Investigations are being crafted by NYS educators



Biology, Earth and Space Sciences:

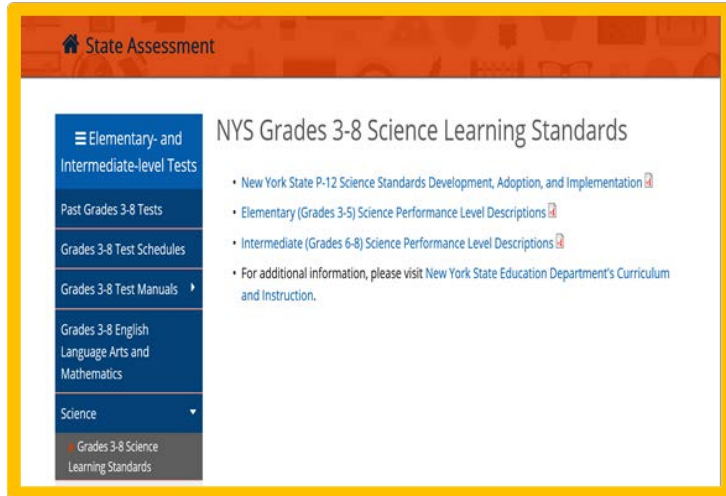
- Domain Analysis and Performance Level Descriptions (PLDs) are being workshopped by NYS educators



Chemistry, Physics:

- Claims are being workshopped by NYS educators and Evidence will be started the Fall of 2021

Release of the ELS and ILS Performance Level Descriptions (PLDs)



The screenshot shows the NYS State Assessment website. The navigation menu on the left includes: Elementary- and Intermediate-level Tests, Past Grades 3-8 Tests, Grades 3-8 Test Schedules, Grades 3-8 Test Manuals, Grades 3-8 English Language Arts and Mathematics, and Science. The Science section is expanded, showing Grades 3-8 Science Learning Standards. The main content area displays the title 'NYS Grades 3-8 Science Learning Standards' and a list of links: New York State P-12 Science Standards Development, Adoption, and Implementation; Elementary (Grades 3-5) Science Performance Level Descriptions; Intermediate (Grades 6-8) Science Performance Level Descriptions; and a link for additional information from the New York State Education Department's Curriculum and Instruction.

NYS Level 4

Students performing at this level **excel** in standards for their grade. They demonstrate knowledge, skills, and practices embodied by the Learning Standards that are considered **more than sufficient** for the expectations at this grade.

NYS Level 3

Students performing at this level are **proficient** in standards for their grade. They demonstrate knowledge, skills, and practices embodied by the Learning Standards that are considered **sufficient** for the expectations at this grade.

NYS Level 2

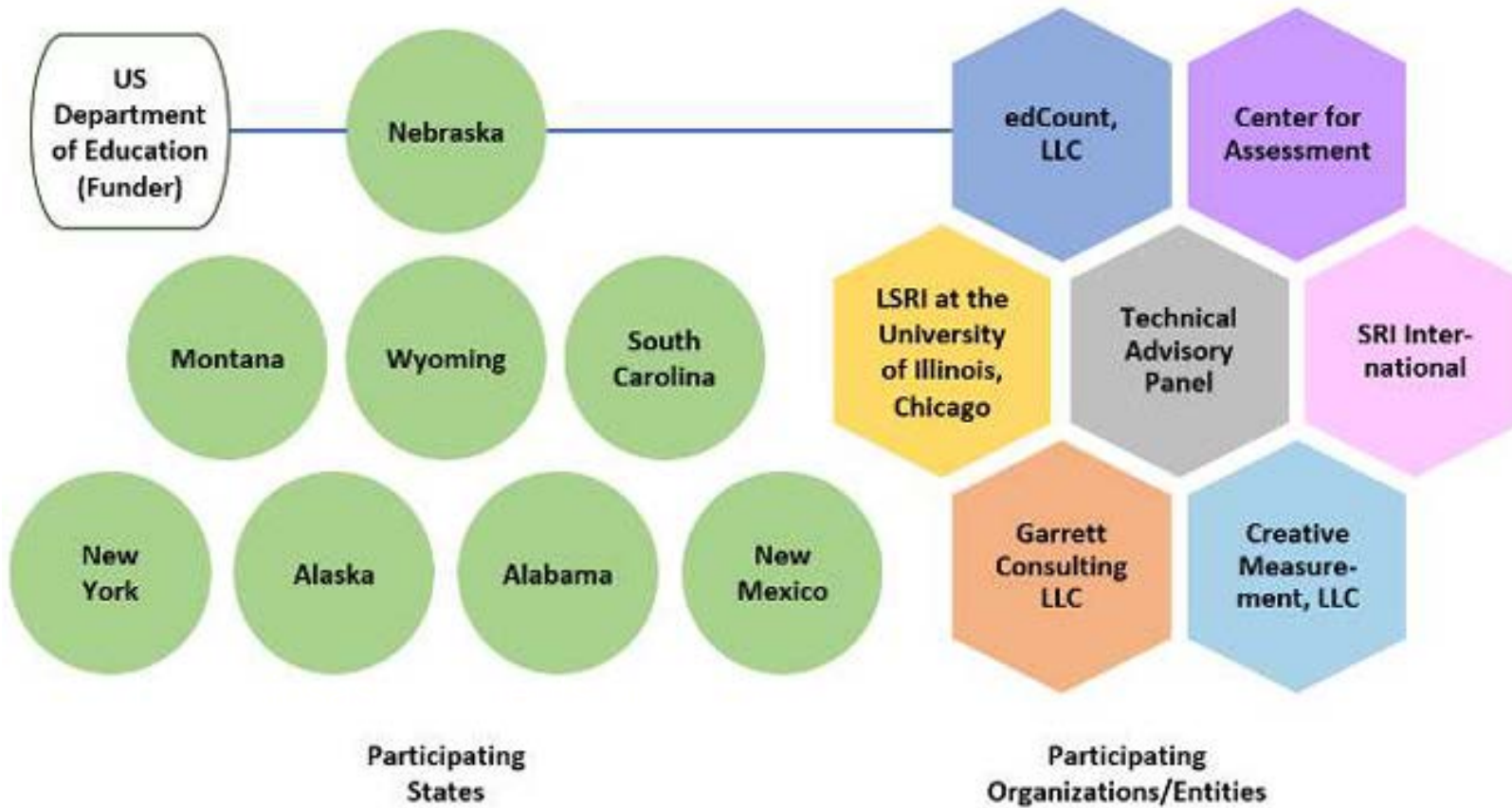
Students performing at this level are **partially proficient** in standards for their grade. They demonstrate knowledge, skills, and practices embodied by the Learning Standards that are considered partial but insufficient for the expectations at this grade. Students performing at Level 2 are considered on track to meet current New York high school graduation requirements but are **not yet proficient** in Learning Standards at this grade.

NYS Level 1

Students performing at this level are **below proficient** in standards for their grade. They may demonstrate **limited** knowledge, skills, and practices embodied by the Learning Standards that are considered **insufficient** for the expectations at this grade.

Topic and PE	NYS Level 4	NYS Level 3	NYS Level 2	NYS Level 1
MS History of Earth MS-ESS1-4	Construct a scientific explanation, based on evidence from multiple sources, for how the geologic time scale is used to organize Earth's 4.6-billion-year-old history, and determine patterns of relative age for rock strata, fossils and past geologic events.	Construct a scientific explanation based on evidence from rock strata for how the geologic time scale is used to organize Earth's 4.6-billion-year-old history.	Given a scientific explanation, use evidence from rock strata to determine that rock formations and the fossils they contain are used to establish relative ages of major events in Earth's history.	Given evidence from rock strata, identify the explanation, from those provided, that the analysis of rock formation and the fossils they contain are used to establish relative ages of major events in Earth's history.

[OSA'S ELEMENTARY- AND INTERMEDIATE-LEVEL SCIENCE WEBPAGE](#)



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

SIPS Deliverables Timeline



Deliverable	Status	Final Delivery Date
<i>Task 1: Project Planning and Research</i>		
SIPS Project Website	Complete	Maintained 5 years post-project
Project Theory of Action	Complete	March 2021
SIPS Web-based Platform Specifications	Not Started	September 2023
<i>Task 2: Claims, Measurement Targets, PLDS and Curricular Planning Tools and Templates</i>		
Claims, Measurement Targets, Policy and Range PLDs (to be revised post-pilot in year 3)	In Progress	September 2023
Curricular Planning Tools and Templates: NGSS Bundles/Flowcharts, Student Profiles, UbD Unit Map Template, PAD Assessment Templates, UbD Lesson Template (to be revised post-pilot in year 3)	In Progress	September 2023
<i>Task 3: Prototype Curriculum Framework</i>		
UbD Year-long Model Courses (4 units each at grade 5 and 8) (to be revised post-pilot in year 3)	In Progress (Unit 1)	September 2023
End-of-Unit (Modular) SIPS Assessments (4 each at grade 5 and 8) (to be revised post-pilot in year 3)	In Progress (Unit 1)	September 2023
Process Documentation (explanation of design model and UbD, PAD, and UDL approach; guidance for replication and use)	Not Started	December 31, 2021
<i>Task 4: Classroom Assessment Development Workshops</i>		
Instructionally-embedded Classroom Assessment Development Workshop #1	Not Started	November 2021
Instructionally-embedded Classroom Assessment Development Workshop #2	Not Started	March 2022
Instructionally-embedded Classroom Assessment Tasks (to be revised post-pilot in year 3)	Not Started	September 2023
<i>Task 5: Pilot Study of Curriculum Prototypes and Common Assessments</i>		
Pilot Study Plan and Timeline	Not Started	November 2021
Pilot Materials and Data Collection Tools	Not Started	June 2022
Pilot Study Completion	Not Started	April 2023
Analysis and Summary of Pilot Results	Not Started	September 2023
<i>Task 6: Project Evaluation, Dissemination, and Reporting</i>		
Dissemination Plan	Not Started	September 2023
Measurement Models	Not Started	September 2023



Educator Opportunities

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

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

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

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