NYSED’s Office of Curriculum and Instruction

www.nysed.gov/curriculum-instruction
(518) 474-5922
EMSCURRIC@nysed.gov

Fall 2018

New York State EDUCATION DEPARTMENT
Knowledge » Skill » Opportunity
Science Initiatives
www.nysed.gov/curriculum-instruction/science

Standards

- NYS P-12 Science Learning Standards
  - Updated Connection Boxes
  - Intro to the NYS P-12 Science Learning
  - Standards Organized by; All standards, and P-2, 3-5, MS, HS
NYS P-12 Science Learning Standards Implementation Roadmap

• Overview

Phase I – Raise Awareness Build Capacity 07/17- 08/2019
Phase II – Transition and Implementation 09/2019- 08/2021
Phase III – Implementation and Sustainability 09-2021-08/2024
Implementation Roadmap

Roadmap Activity A3c:
• Ensure that the six critical components - Standards, Curriculum, Professional Development to Enhance Instruction, Assessment, Materials and Resource Support, and Administrative and Community Support - of the 5-year strategic plan are addressed concurrently during the implementation process.

Focus Question:
• From your lens what Implementation Roadmap activities are a focus this school year?

Prioritizing Phase I - Roadmap - Activity 1
• Based on your professional role & responsibilities, and from the lens of the organization you represent, identify in priority order the activities most important Phase I activities to address.
Implementation Roadmap

Roadmap Activity A3c:

• Ensure that the six critical components - *Standards*, *Curriculum*, *Professional Development to Enhance Instruction*, *Assessment*, *Materials and Resource Support*, and *Administrative and Community Support* - of the 5-year strategic plan are addressed concurrently during the implementation process.

What Focus Question:

• Implementation Roadmap activities are a priority at the local, regional, and state levels?

Prioritizing Phase I Roadmap - Activity 2

• Within your group, identify the priority activities at the local, regional and state levels in each of the key component areas.
Science Initiatives
www.nysed.gov/curriculum-instruction/science

Professional Development

– Grants

• Math/Science High School Projects
• Teachers of Tomorrow Math, Science and Bilingual Educators
• Math and Science Partnership Program – Projects

Resource Networks:

• NYS Science Education Ecosystems Network
| 1. Albany City School District | Math & Science Grades K-12  
College of St. Rose |
|-------------------------------|---------------------------------------------------------------------|
| 2. Batavia City School District | Math & Science Grades K-12  
SUNY Brockport |
Clarkson University |
SUNY – Stony Brook University |
| 5. Buffalo City School District | Math & Science Grades 3-5  
SUNY Buffalo State College |
SUNY - Buffalo State College |
| 7. Dundee Central School District | Math & Science Grades K-12  
University of Rochester |
SUNY Fredonia |
University of Rochester |
| 10. Liberty Central School District | Mathematics and Science Grades 6-12  
SUNY Sullivan County Comm College |
| 11. Lyons Central School District | Mathematics Grades 5-12  
University of Rochester |
University of Rochester |
| 13. NYDOE | Math & Science Grades K-8  
City College of NY - Science  
Hunter College – Math |
Pace University |
| 15. Rochester City School District | Math & Science Grades K-8  
University of Rochester |
| 16. Salmon River Central School District | Mathematics Grades 6-12  
Clarkson University |
| 17. Schenectady City School District | Mathematics Grades 6-12  
University of Pittsburgh at Greensburg |
| 18. Sodus Central School District | Mathematics Grades 4-12  
University of Rochester |
| 19. Syracuse City School District | Math & Science Grades 6-8  
Lemoyne College - Science  
Syracuse University – Mathematics |
| 20. Waterloo Central School District | Mathematics K-8  
University of Rochester |
| 21. Westbury Union Free School District | Science Grades K-12  
New York Institute of Technology |
| 22. Yonkers City School District | Science Grade 6  
Mercy College |
Science Initiatives
www.nysed.gov/curriculum-instruction/science

Curriculum, Professional Development

– Collaborations

• **Teacher Centers** – 126 Regional Centers

• **BOCES** – SCDN Science State-wides - PD Sessions

• **DEC Invasive Species** – K-12 Educators Resources

• **DEC’s Invasive Species Pilot Curriculum**
Science Initiatives
www.nysed.gov/curriculum-instruction/science

Curriculum, Professional Development

- Collaborations
  - **NY State Museum** - Cultural Education Center
  - **SUNY Master Teachers Program**
  - **Science Professional Organizations**
  - **PAEMST**
NY State  Science Education Ecosystems Network

- **Board of Cooperative Education Services/SCDN/BOCES**
  The 37 BOCES regions are colored in different shades on the map with pins linking to the website.

- **Science Teachers Association of New York State/STANYS**
  The 16 STANYS sections are outlined in red. Each region links to a section website/contact.

- **New York State Teacher Centers**
  Pins mark and link to centers that indicated science standard support as a 2017-2018 focus area.

- **New York State Master Teacher Program**
  Pins mark the location and link to regional websites/contacts.

- **Parks, Recreation + Historic Preservation**
  Pins mark the locations and link to websites for the New York State Nature Centers.

- **PBS Learning Media**
  Pins mark the locations and link to websites for local TV stations.

- **STEM Partnerships**
  **STEM Ecosystems**
  Collaborations offering an array of learning opportunities. Designed pathways enable young people to become engaged, knowledgeable and skilled in the STEM disciplines.

- **New York State STEM Hubs**
  Interconnect business, higher education, community organizations

- **New York State Department of Environmental Conservation; Environmental Education Centers**
  Pins mark the locations and link to websites for the regional Environmental Education Centers.

- **New York State Science Education Consortium**
  A Cooperative Association of Professional Science Education Organizations. Their website contains collated resources to facilitate standards implementation.

- **Math Science Partnership (MSP) Programs**
  Title II, Part B of the Elementary and Secondary Education Act (ESEA) legislation authorizes the MSP competitive grant program aimed at improving the achievement of students in mathematics and science through partnerships that enhance the teaching of elementary and secondary teachers of mathematics and science (P-12).

- **New York State Education Department/Science Education Steering Committee**
  Webpage and most up to date information for the New York State P-12 Science Learning Standards

- **New York State Museum**
Science Initiatives
www.nysed.gov/curriculum-instruction/science

Assessment

- **Draft** Proposed Science Assessments Timeline

- 4 High School Science Course Maps

- Interested educators who wish to participate in test development activities can complete an on-line application

- Assessment Questions? Email EMSCASSESSINFO@nysed.gov
DRAFT Proposed Timeline
Science Assessments

DRAFT
• 2022  
  Elementary Level: Grade 5
  Intermediate Level: Grade 8

DRAFT
• 2023  
  Earth and Space Sciences
  Life Science: Biology

DRAFT
• 2024  
  Physical Science: Chemistry
  Physical Science: Physics

Fall 2018
Educator Opportunity

Office of State Assessment

Interested educators who wish to participate in test development activities can complete an on-line application.