NYSED's Office of Curriculum and Instruction

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Fall 2018

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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

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Science Initiatives
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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.

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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.

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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

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ESEA Title II Part B Mathematics and Science Partnership Program 2018-19

1. Albany City School District
Mathematics Grades 1-2
College of St. Rose

2. Batavia City School District
Math & Science Grades K-12
SUNY Brockport

3. Beacon City School District
Mathematics Grades 6-9
Clarkson University

4. Brentwood Union Free School District
Science - STEM Grades 7-9
SUNY – Stony Brook University

5. Buffalo City School District
Math & Science Grades 3-5
SUNY Buffalo State College

6. Cheektowaga Central School District
Mathematics - High School
SUNY - Buffalo State College

7. Dundee Central School District
Math & Science Grades K-12
University of Rochester

8. Dunkirk City School District
Math Grades 6-8, Science Grades K-5
SUNY Fredonia

9. Geneva City School District
Science Grades K-12
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

12. Newark Central School District
Mathematics Grades K-5
University of Rochester

13. NYCDOE
Math & Science Grades K-8
City College of NY - Science
Hunter College – Math

14. Peekskill City School District
Mathematics Grades K-5
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

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

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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.

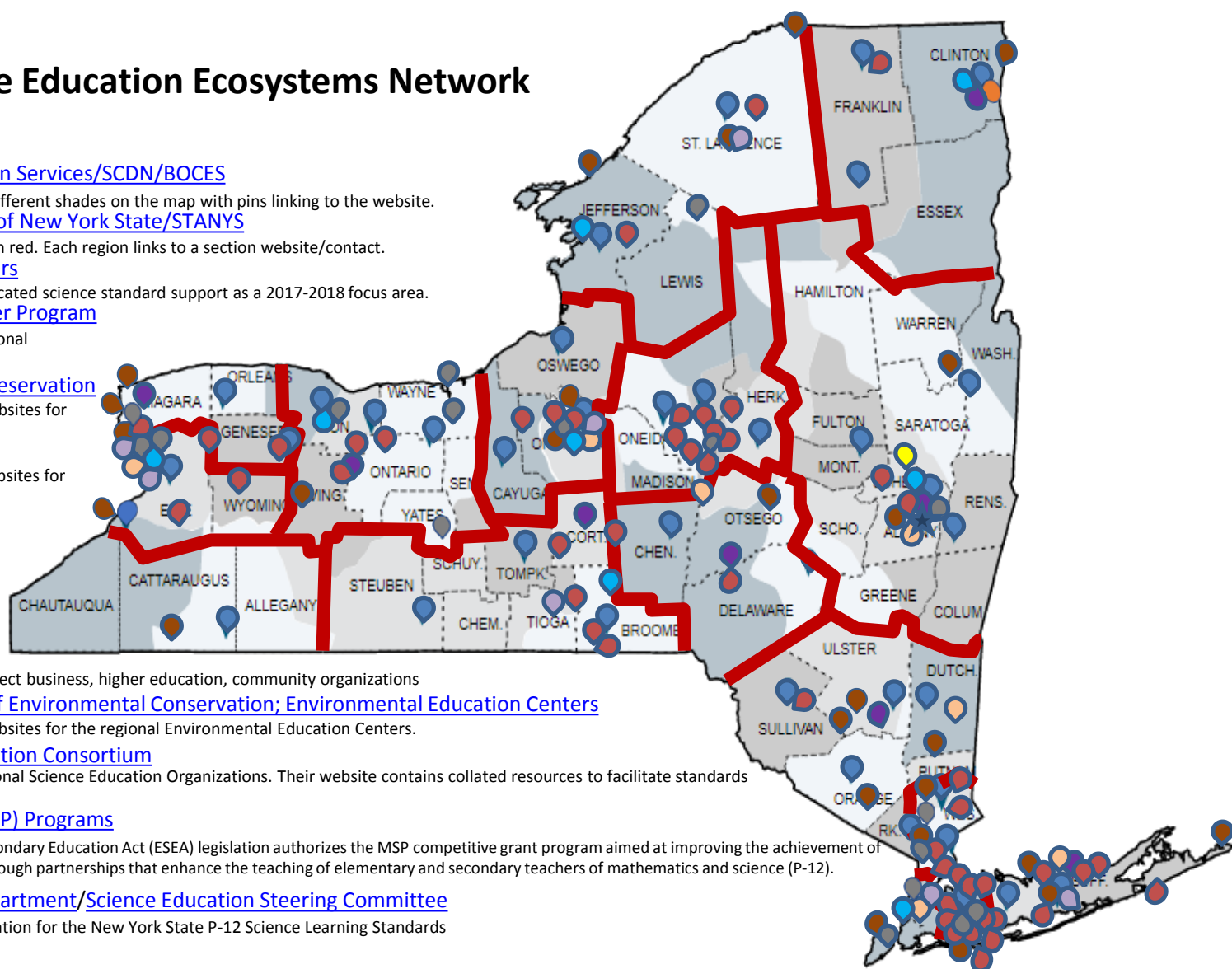**Math Science Partnership (MSP) Programs**
Title II, Part B of the Elementary and Secondary Education Act (ESEA) legislation authorizes the MSP competitive grant program aimed at improving the achievement of students in mathematics and science through partnerships that enhance the teaching of elementary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

Pin locations are approximations.

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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

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DRAFT **Proposed Timeline Science Assessments**

DRAFT

- 2022   Elementary Level: Grade 5
         Intermediate Level: Grade 8

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- 2023   Earth and Space Sciences
         Life Science: Biology

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- 2024   Physical Science: Chemistry
         Physical Science: Physics

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Educator Opportunity

Office of State Assessment

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

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