

# NYSED's Office of Curriculum and Instruction

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

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Spring 2019





www.nysed.gov/curriculum-instruction/science

#### **Standards**

NYS P-12 Science Learning Standards

http://www.nysed.gov/curriculum-instruction/2016-adopted-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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### NYS P-12 Science learning Standards Implementation Roadmap

http://www.nysed.gov/common/nysed/files/programs/curriculum-instruction/nysedimplementation-roadmapv13.pdf

Overview
 <u>http://www.nysed.gov/common/nysed/files/programs/curriculum-instruction/3-19-18roadmap-overview1.pdf</u>

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 for the next 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 Phase
I activities most important 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:

 Which 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 <a href="http://www.nysed.gov/curriculum-instruction/science-standards-implementation-resources">http://www.nysed.gov/curriculum-instruction/science-standards-implementation-resources</a>



# 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

New York State
EDUCATION DEPARTMENT
Knowledge > Skill > Opportunity

- 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

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





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#### **Curriculum, Professional Development**

- Collaborations
- Teacher Centers 126 Regional Centers
   <a href="http://www.nysed.gov/curriculum-instruction/teacher-centers/">http://www.nysed.gov/curriculum-instruction/teacher-centers/</a>
   <a href="http://www.nysteachercenters.org/">http://www.nysteachercenters.org/</a>
   MAP/Centers
- BOCES SCDN Science State-wides PD Sessions
   <a href="http://www.p12.nysed.gov/ds/jmt.html">http://www.p12.nysed.gov/ds/jmt.html</a>
- DEC Invasive Species K-12 Educators Resources
   https://dec.ny.gov/animals/114620.html
   DEC's Invasive Species Pilot Curriculum

https://www.dec.ny.gov/docs/lands\_forests\_pdf/iscurriculumfinal.pdf





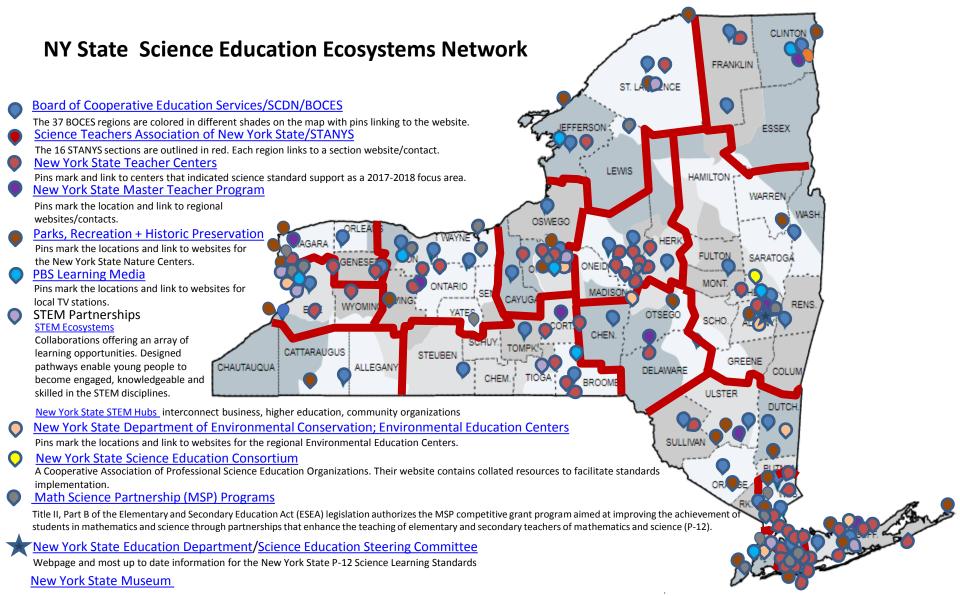
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#### **Curriculum, Professional Development**

- Collaborations
- NY State Museum Cultural Education Center <a href="http://www.nysm.nysed.gov/">http://www.nysm.nysed.gov/</a>
- SUNY Master Teachers Program https://www.suny.edu/masterteacher/
- Science Professional Organizations
   <a href="http://www.nysed.gov/curriculum-instruction/science-associations">http://www.nysed.gov/curriculum-instruction/science-associations</a>
- PAEMST

http://www.nysed.gov/curriculum-instruction/awards-and-scholarships

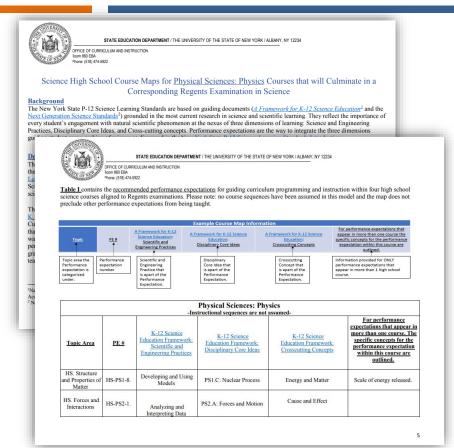




Pin locations are approximations.

#### **Science 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

http://www.nysed.gov/curriculuminstruction/science-standardsimplementation-resources



#### Science Learning Standards Implementation Timeline



New York State P-12 Science Standards Development, Adoption, and Implementation Phase I Phase II Phase III Implementation & Sustainability Raise Awareness & Build Capacity **Transition & Implementation** Ongoing curriculum & professional development Instruction aligned to NYS P12 Science Learning Standards begins... September 2022 ...September 2020 ...September 2021 ..September 2019 Continue Phase III transition toward full for Grades P-3 and 6 for Grades 4 and 7 for Grades 5 and 8 implementation of the NYS 9-12 Science Learning Standards at the local level 2018 2019-20 2021 2022-24 Standards Become June 2020 June 2021 First administration Effective July 1, 2017 Last administration No Grade 4 science test; these First administration March 2018 Chemistry and of Grade 4 science students will take new science of new Elementary NYS P-12 Science Biology, and Earth Physics Regents test aligned to the test in grade 5 in 2022 Grade 5 and December 2016 adoption Roadmap Exams of NYS P-12 Science 1996 Standards Last administration of Grade 8 Released Learning Standards. Regents Exams science test aligned to the 1996 Grade 8 science State Level Science Assessment Development & Implementation

Details development, adoption, and implementation timeline for the NYS P-12 Science Learning Standards

Includes rollout of new science assessments

- Grade 5
- Grade 8
- Regents Examinations in Science





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#### **Assessment**

- Science Assessments Timeline included in Science Learning Standards Timeline
- Interested educators who wish to participate in test development activities can complete an on-line application at <a href="http://www.p12.nysed.gov/assessment/teacher/home.html">http://www.p12.nysed.gov/assessment/teacher/home.html</a>
- Assessment Questions? Email <u>EMSCASSESSINFO@nysed.gov</u>



#### **Educator Opportunity**



#### Office of State Assessment

Interested educators who wish to participate in test development activities can complete an on-line application at <a href="http://www.p12.nysed.gov/assessment/teacher/home.html">http://www.p12.nysed.gov/assessment/teacher/home.html</a>







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