



BOCES 4 SCIENCE UNIT WORKSHOPS

**2018-2019
School Year**

Teacher training on new elementary science units that were written specifically to address the recently adopted NYS PreK – 12 Science Learning Standards have been scheduled for the 2018-2019 School Year!

Join the BOCES 4 Science educators for comprehensive professional development sessions that will include specific information on the appropriate grade level NYSSLS topic, 3-Dimensional instructional strategies specific to this topic, current formative and summative assessment for the unit, content instruction and more. Teachers will walk away prepared to begin instruction using the new science standards.

- **Click on the links in this document to register for any of the BOCES 4 Science Workshops. Registration will be on My Learning Plan (MLP). Exact locations of workshops will also be listed on MLP. There is no cost to attend these trainings.**

<u>Unit Workshop</u>	<u>Date</u>	<u>Time</u>	<u>East Side Location</u>	<u>West Side Location</u>
<u>Weather for Kindergarten</u>	9/18/18	12:30-3:30	Monroe 1 BOCES	
<u>Weather for Kindergarten</u>	9/19/18	8:30-11:30		Genesee Valley BOCES
<u>Weather for Kindergarten</u>	12/12/18	12:30-3:30	Wayne Finger Lakes BOCES	
<u>Kindergarten - Pushes and Pulls</u>	12/5/18	8:30-11:30		Monroe 2 BOCES
<u>Kindergarten - Pushes and Pulls</u>	1/23/19	8:30-11:30		Genesee Valley BOCES
<u>Kindergarten - Pushes and Pulls</u>	1/29/19	8:30-11:30	Monroe 1 BOCES	
<u>Grade 1 - Sending Messages with Light and Sound</u>	10/4/18	8:30-3:30		Genesee Valley BOCES
<u>Grade 1 - Sending Messages with Light and Sound</u>	12/18/18	8:30-3:30	Monroe 1 BOCES	
<u>Grade 1 - Sending Messages with Light and Sound</u>	5/16/19	8:30-3:30		Monroe 2 BOCES
<u>Grade 1 - A Bunny's Life</u>	11/29/18	8:30-3:30		Monroe 2 BOCES
<u>Grade 1 - A Bunny's Life</u>	1/24/19	8:30-3:30	Wayne Finger Lakes BOCES	
<u>Grade 1 - A Bunny's Life</u>	5/14/19	8:30-3:30		Genesee Valley BOCES

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BOCES 4 SCIENCE UNIT WORKSHOPS, cont.

<u>Unit Workshop</u>	Date	Time	East Side Location	West Side Location
<u>Grade 2- Save the Bees</u>	9/18/18	8:30-3:30		Monroe 2 BOCES
<u>Grade 2- Save the Bees</u>	10/16/18	8:30-3:30	Wayne Finger Lakes BOCES	
<u>Grade 2- Save the Bees</u>	3/12/19	8:30-3:30	Monroe 1 BOCES	
<u>Grade 2 - Earth's Features</u>	2/8/19	8:30-3:30	Monroe 1 BOCES	
<u>Grade 2 - Earth's Features</u>	2/15/19	8:30-3:30		Monroe 2 BOCES
<u>Grade 2 - Earth's Features</u>	2/27/19	8:30-3:30	Wayne Finger Lakes BOCES	
<u>Grade 3 - Where are the Wolves?</u>	1/9/19	8:30-3:30	Monroe 1 BOCES	
<u>Grade 3 - Where are the Wolves?</u>	1/15/19	8:30-3:30		Genesee Valley BOCES
<u>Grade 3 - Where are the Wolves?</u>	3/26/19	8:30-3:30		Monroe 2 BOCES
<u>Grade 3 - Investigating Weather</u>	9/25/18	8:30-3:30		Genesee Valley BOCES
<u>Grade 3 - Investigating Weather</u>	9/27/18	8:30-3:30	Wayne Finger Lakes BOCES	
<u>Grade 3 - Investigating Weather</u>	10/2/18	8:30-3:30	Monroe 1 BOCES	
<u>Grade 4 - Riding the Waves</u>	9/20/18	8:30-3:30	Wayne Finger Lakes BOCES	
<u>Grade 4 - Riding the Waves</u>	9/27/18	8:30-3:30		Genesee Valley BOCES
<u>Grade 4 - Earth's Processes in NYS</u>	12/4/18	8:30-3:30		Monroe 2 BOCES
<u>Grade 4 - Earth's Processes in NYS</u>	1/30/19	8:30-3:30	Monroe 1 BOCES	
<u>Grade 4 - Earth's Processes in NYS</u>	5/15/19	8:30-3:30		Genesee Valley BOCES
<u>Grade 5 - Deer, Deer Everywhere!</u>	9/19/18	8:30-3:30		Monroe 2 BOCES
<u>Grade 5 - Deer, Deer Everywhere!</u>	9/26/18	8:30-3:30	Monroe 1 BOCES	
<u>Grade 5 - Deer, Deer Everywhere!</u>	10/10/18	8:30-3:30		Genesee Valley BOCES
<u>Grade 5 - Toys Matter</u>	11/7/18	8:30-3:30	Monroe 1 BOCES	
<u>Grade 5 - Toys Matter</u>	11/14/18	8:30-3:30		Monroe 2 BOCES
<u>Grade 5 - Toys Matter</u>	1/30/19	8:30-3:30		Genesee Valley BOCES

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BOCES 4 SCIENCE UNIT WORKSHOPS, cont.

<u>Unit Workshop</u>	<u>Date</u>	<u>Time</u>	<u>East Side Location</u>	<u>West Side Location</u>
<u>Grade 5 - Got Water?</u>	12/5/18	8:30-3:30		Wayne Finger Lakes BOCES
<u>Grade 5 - Got Water?</u>	12/12/18	8:30-3:30	Monroe 2 BOCES	
<u>Grade 5 - Got Water?</u>	1/23/18	8:30-3:30		Genesee Valley BOCES
<u>Middle School - Waves & Electromagnetic Radiation</u>	11/1/18	8:30-3:30	Monroe 1 BOCES	
<u>Middle School - Waves & Electromagnetic Radiation</u>	11/9/18	8:30-3:30		Monroe 2 BOCES

BOCES 4 SCIENCE WORKSHOPS—GENERAL

The general science workshops BOCES 4 Science will offer during the 2018-19 school year will help teachers have a better understanding of the NYSSLS and how to implement them in their classrooms.

Three-Dimensional assessment will also be addressed, as well as STEM education. Please see the information below for dates and times for each workshop.

⇒ **Audience:** Any K-12 Teachers of any content area

⇒ **Cost:** Free to district members of regional science curriculum writing, all others \$125.00 per person

<u>Title of Workshop and Description</u>	<u>Date</u>	<u>Time</u>	<u>East Side Location</u>	<u>West Side Location</u>
<p><u>NYSSLS 101: An Intro to the New Science Standards (2 day training)</u></p> <p>New to new NYS Science Learning Standards? If yes, you are not alone. The NYSSLS are based on the Next Generation Science Standards (NGSS) and the Framework for K-12 Science Education.</p> <ul style="list-style-type: none"> Day 1 of this workshop will provide background about the NYSSLS, an overview of how to read the standards, a glimpse into 3-Dimensional learning, and an exploration of concrete instructional moves to bring back to your classroom. Between Days 1 and 2, participants will experiment with incorporating specific instructional moves into their teaching of science. Day 2, teachers will bring artifacts that represent both their science instruction as well as student learning. These artifacts will be the central focus for reflection, refinement, sharing of ideas, and planning of next steps. 	<p><u>11/8/18</u> & <u>1/29/19</u></p>	8:30-3:30	Monroe 1 BOCES	
	<p><u>2/13/19</u> & <u>5/8/19</u></p>	8:30-3:30		Monroe 2 BOCES

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BOCES 4 SCIENCE WORKSHOPS—GENERAL, cont.

<u>Title of Workshop and Description</u>	Date	Time	East Side Location	West Side Location
<p><u>The NYSSLS are Here! Now What? (2 day training)</u></p> <p>After teachers have had an introduction to New York State Learning Standards, this two-day workshop takes them to the next level. Phenomenon, questioning, and modeling go hand in hand. By incorporating these practices in the elementary science classroom, we expect to improve science instruction and student achievement.</p> <ul style="list-style-type: none"> On day 1, teachers will expand their understanding of phenomenon and participate as “students in a classroom”. As teachers, participants will figure out how questions can be used within a lesson/unit to make it more student-centered. Modeling is used to help assess prior knowledge and current learning. Prior to day 2 of this workshop, teachers will implement their learning about teaching with phenomena and the practices of asking questions and modeling. Teachers should prepare to present their experiences and to the group, bringing artifacts of their learning to day 2. On day 2, participants will meet back together to reflect on their classroom implementation, share their artifacts of learning, and participate in feedback discussions on how to refine their practice. Participants will leave day 2 with concrete next steps related to incorporating phenomenon, questioning, and modeling into their daily instruction. 	<p><u>10/11/18</u> & <u>12/6/18</u></p>	8:30-3:30	Monroe 1 BOCES	
	<p><u>10/10/18</u> & <u>12/11/18</u></p>	8:30-3:30		Monroe 2 BOCES
	<p><u>1/23/19</u> & <u>3/28/19</u></p>	8:30-3:30		Genesee Valley BOCES
	<p><u>1/17/19</u> & <u>3/14/19</u></p>	8:30-3:30	Wayne Finger Lakes BOCES	

<u>Title of Workshop and Description</u>	Date	Time	East Side Location	West Side Location
<p><u>Exploring 3D Assessments in Science</u></p> <p>What will future formative and summative assessments be like for students? What are other states doing right now? Participants in this session will have an opportunity to explore the 3 Dimensions: Science & Engineering Practices; Disciplinary Core Ideas; and Crosscutting Concepts and formulate specific formative and summative assessments for their own grade level. Current information about the NYS Science Roadmap will be shared.</p>	<p><u>11/13/18</u></p>	8:30-3:30	Monroe 1 BOCES	
	<p><u>11/15/18</u></p>	8:30-3:30		Monroe 2 BOCES

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BOCES 4 SCIENCE WORKSHOPS—GENERAL, cont.

<u>Title of Workshop and Description</u>	Date	Time	East Side Location	West Side Location
<u>STEM and the NYSSLS</u> Before there were the New York Science Learning Standards (NYSSLS), before there were the Next Generation Science Standards (NGSS), there was STEM. The focus on STEM came about as educational leaders realized that many of tomorrow's jobs would involve the integration of Science, Technology, Engineering and Math. STEM is now part of our new science standards and how STEM fits into these standards is the focus of this workshop. Through hands-on activities and discussion, we will discover the many ways in which NYSSLS asks science teachers to incorporate Engineering and Technology into their instruction. If you have a favorite STEM activity, come ready to share, and we will assess its correlation to the New York State Science Learning Standards.	<u>10/16/18</u>	8:30-3:30	Wayne Finger Lakes BOCES	
	<u>3/7/19</u>	8:30-3:30		Monroe 2 BOCES

<u>Title of Session and Description</u>	Date	Time	East Side Location	West Side Location
<u>BOCES 4 Science Showcase of Units</u> Plan to attend this informational meeting about elementary science (K-5) units that have been developed based on the new NYS Science Learning Standards (NYSSLS). Over the past 3 years, teachers from districts throughout our region have convened for professional development and the creative endeavor of writing a new science unit tied to one of the NYSSLS topics for each grade. This session will provide a brief overview of the important shifts in science instruction, our unit development process, and the Standards addressed. Participants will have plenty of time to ask questions and review the newly published teachers guides.	<u>9/19/18</u>	1:00-3:00		Genesee Valley BOCES
	<u>11/14/18</u>	1:00-3:00	Wayne Finger Lakes BOCES	
	<u>12/17/18</u>	1:00-3:00		Monroe 2 BOCES
	<u>1/18/19</u>	1:00-3:00	Monroe 1 BOCES	

Training Locations

Monroe 1 BOCES: 11 OR 15 Linden Park, Rochester, NY 14625

Monroe 2 BOCES: Elementary Science Program, 38 Turner Drive, Spencerport, NY 14559

Genesee Valley Educational Partnership: 80 Munson Street, LeRoy, NY 14482

Wayne Finger Lakes BOCES Conference Center: 131 Drumlin Court, Newark, NY 14513