



Preparing Students for the New Grades 3-5 NYSED Exam *Presented by Glen Cochrane*

Prerequisite: Registrants must have knowledge of the New York State Science Learning Standards with their new expectations for how students will learn and be assessed.

The first administration of the New York State P-12 Science Learning Standards (NYSSLS, 2016) grade 5 elementary level science exam, based on students' learning in grades 3-5, will be a computer-based test (CBT) that students will take within the window of April 8 through May 17, 2024. This New York State Education Department (NYSED) assessment will be aligned to a performance based, three-dimensional curriculum that the students should be experiencing. This workshop will provide the participants with an understanding of the major shift from the Elementary Core Curriculum K-4 (MST, 1996). The expectations for curriculum, instruction, and assessment addressed by NYSSLS represent a significant change from recall to the application of science to real-world scenarios. Having students make connections between the three dimensions of scientific knowledge, practices, and concepts will better prepare them to develop a coherent and scientifically based view of the world. This is a paradigm shift to students constructing their own understandings with much less memorization of science facts. Included will be:

- A review of the NYSSLS expectations for curriculum, instruction, and student learning for elementary students which are the basis for how the new exam will be constructed;
- Using a System of Assessment to evaluate student progression of learning;
- Using the Performance Level Descriptions (PLDs) to review how they can be used to review curriculum opportunities for students to learn and they are aligned to assessment;
- Reviewing the item-cluster format for state exams using the sample clusters released by NYSED;
- Reviewing lessons aligned with the NYSSLS;
- Determining if questions from the grade 4 exam (last administered in 2022) align with the NYSSLS;
- Modifying questions or groups of questions that align with the content in the NYSSLS so that they align with the NYSSLS expectations for assessment.

****B.Y.O.D. (Bring Your Own Device) - Participants should bring a fully charged laptop, iPad, or tablet to download resources and access websites throughout the workshop.**

DATE: Thursday, February 15, 2024
TIME: 8:30 am – 2:30 pm
AUDIENCE: Grades 3-5 Science Educators and Science Leaders
COST: \$150 for subscribers / \$199 for non-subscribers
LOCATIONS: Instructional Support Center @ Sequoya, 750 Waverly Ave, Holtsville
REGISTER: <http://webreg.esboces.org>



Glen Cochrane retired from Half Hollow Hills after 37 years where he taught all levels of high school science. He has served as an Educational Specialist for NYSED since 2004 participating in multiple phases of developing the Living Environment Regents. Glen was part of the team writing the life science section of the preliminary draft NYS Science Learning Standards at NYSED. He has conducted many workshops for teachers through WS and ES BOCES on strategies to teach the Living Environment and unpacking the new NYSSLS. He meets regularly as a member of the NYS Science Education Consortium. Glen was the President of Science Teachers Association of NYS (STANYS) in 2016-17 and serves as the Chairperson of the Suffolk section.

Preparing Students for the New Grades 6-8 NYSED Exam

Presented by Brian Vorwald

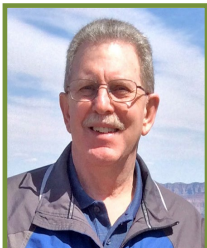
Prerequisite: Registrants must have knowledge of the New York State Science Learning Standards with their new expectations for how students will learn and be assessed.

The first administration of the New York State P-12 Science Learning Standards (NYSSLS, 2016) grade 8 intermediate level science exam, based on students' learning in grades 6-8, will be a computer-based test (CBT) that students will take within the window of April 8 through May 17, 2024. This New York State Education Department (NYSED) assessment will be aligned to a performance based, three-dimensional curriculum that the students should be experiencing. This workshop will provide participants with an understanding of the major shift from the Intermediate Level Science Core Curriculum Grades 5-8 (MST, 1996). The expectations for curriculum, instruction, and assessment addressed by NYSSLS represent a significant change from recall to the application of science to real-world scenarios. Having students make connections between the three dimensions of scientific knowledge, practices, and concepts will better prepare them to develop a coherent and scientifically based view of the world. This is a paradigm shift to students constructing their own understandings with much less memorization of science facts. Included will be:

- A review of the NYSSLS expectations for curriculum, instruction, and student learning for intermediate level students which are the basis for how the new exam will be constructed;
- Using a System of Assessment to evaluate student progression of learning;
- Using the Performance Level Descriptions (PLDs) to review how they can be used to review curriculum opportunities for students to learn and how they are aligned to assessment;
- Reviewing the item-cluster format for state exams using the sample clusters released by NYSED;
- Reviewing lessons aligned with the NYSSLS;
- Determining if questions from the grade 8 exam (last administered in 2023) align with the NYSSLS;
- Modifying questions or groups of questions that align with the content in the NYSSLS so that they align with the NYSSLS expectations for assessment.

****B.Y.O.D. (Bring Your Own Device) - Participants should bring a fully charged laptop, iPad, or tablet to download resources and access websites throughout the workshop.**

DATE: Friday, March 8, 2024
TIME: 8:30 am – 2:30 pm
AUDIENCE: Grades 6-8 Science Educators and Science Leaders
COST: \$150 for subscribers / \$199 for non-subscribers
LOCATION: Instructional Support Center @ Sequoia, 750 Waverly Avenue, Holtsville
REGISTER: <http://webreg.esbooces.org>



Brian Vorwald taught Earth Science for 35 years in Sayville Public Schools, was Science Department Chairperson for grades 6-12, and was an Adjunct Associate Professor of Earth and Space Sciences at Suffolk County Community College for more than 30 years. Brian has delivered numerous workshops at the local and state level, and as a consultant has worked on elementary curricula aligned with the NYSSLS, has delivered numerous workshops for teachers that have provided training in the NYSSLS, and has assisted in helping to develop strategies for aligning middle school and elementary curricula with the NYSSLS.



DEPARTMENT OF EDUCATIONAL SUPPORT SERVICES
PROFESSIONAL DEVELOPMENT PROGRAM

Discover Strategies to Incorporate the Crosscutting Concepts in Your Earth and Space Sciences Lessons *Presented by Brian Vorwald*

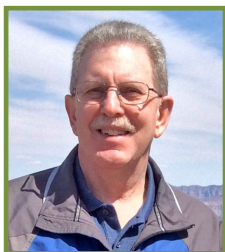
Known as the forgotten dimension, the Crosscutting Concepts (CCCs) provide students with the mental tools needed to help engage in and make sense of complex phenomena from a scientific point of view or to solve problems in engineering. Crosscutting Concepts are essential in understanding the Disciplinary Core Ideas (content) and they complement the Science and Engineering Practices (SEPs). We will view sample phenomena through the lens of the CCCs to demonstrate how students can use them when constructing their own understandings. Examples of how the CCCs can be highlighted in your lessons will illustrate their importance in the expected three-dimensional instruction of the New York State Science Learning Standards (NYSSLS) for secondary Earth and Space Sciences. We will practice using the different CCCs while applying SEPs to familiar phenomena to see how students both view and explain phenomena through the lens of the CCCs.

Included will be:

- Brief review of the new expectations for curriculum, and instruction for teaching and learning and NYSSLS architecture;
- Gaining familiarity with the CCCs, their potential for making science equitable, real, and relevant to all students;
- Using CCCs as resources for realizing the NGSS vision of equity of “standards, all students” that is incorporated into NYSSLS;
- Using prompts and teacher talk to have students use the CCCs implicitly and explicitly in sense-making;
- Using the CCCs as conceptual tools along with science and engineering practices and disciplinary core ideas to frame questions and make sense of phenomena;
- A deeper dive into the CCC progressions.

****B.Y.O.D. (Bring Your Own Device) - Participants should bring a fully charged laptop, iPad, or tablet to download resources and access websites throughout the workshop.**

DATE: Thursday, March 21, 2024
TIME: 8:30 am – 2:30 pm
AUDIENCE: Grades 6-12 Science Educators and Science Leaders
COST: \$150 for subscribers / \$199 for non-subscribers
LOCATION: Instructional Support Center @ Sequoya, 750 Waverly Avenue, Holtsville
REGISTER: <http://webreg.esboces.org>



Brian Vorwald taught Earth Science for 35 years in Sayville Public Schools, was Science Department Chairperson for grades 6-12, and was an Adjunct Associate Professor of Earth and Space Sciences at Suffolk County Community College for more than 30 years. Brian has delivered numerous workshops at the local and state level, and as a consultant has worked on elementary curricula aligned with the NYSSLS, has delivered numerous workshops for teachers that have provided training in the NYSSLS, and has assisted in helping to develop strategies for aligning middle school and elementary curricula with the NYSSLS.



EASTERN SUFFOLK BOCES PROFESSIONAL DEVELOPMENT ONLINE REGISTRATION DIRECTIONS

****TO REGISTER FOR EASTERN SUFFOLK BOCES WORKSHOPS, REGISTER THROUGH THE ACTIVITY CATALOG****

Check with your district to see if you are a member of Frontline/MyLearningPlan

For Frontline/MyLearningPlan Member Districts AND NON-Frontline/MyLearningPlan Member Districts:

To see available courses and to register:

- Go to the website: <http://webreg.esboces.org>
- Under 'Search Options' at the top center, select and check '**Eastern Suffolk BOCES Professional Development Program' from the drop down list and click search;**
- Workshops are listed in chronological order
- Select the title of the course you would like to enroll in
- Click the **ENROLL** button at the bottom of the page
- Select the **correct** login method that applies to you (1) **registered user**; (2) **new user**; (3) **MyLearningPlan.com user**
- After you choose your login method then **Enter User Name & Password – select Log in**
- Enter and update (if needed) your personal account registration information
- Click **Update & Continue**
- Select payment method
- Click on the checkbox to agree to the Terms and Conditions regarding registration and/or cancellations –
"REGISTRATION AND/OR CANCELLATIONS ARE DUE 10 SCHOOL DAYS PRIOR TO THE EVENT. THE DISTRICT WILL BE BILLED UNLESS CANCELLATION IS RECEIVED."
- Click **SUBMIT**
- Select '**Request Approval**' on the following screen if you are a **Frontline/MyLearningPlan district** - If you are a Frontline/MyLearningPlan District, and depending on your district, you will need to fill out the next screen titled "Regional Provider Form" making sure to fill out all required information; **IF ALL NECESSARY INFORMATION IS NOT ENTERED, A FORM ERROR WILL BE OCCUR AND YOU WILL NOT BE FULLY ENROLLED**
- Click **SUBMIT** once **ALL** fields are filled out
- If you are **NOT** a **Frontline/MyLearningPlan district**, print out the **ENROLLMENT FORM** and **AFTER RECEIVING ADMINISTRATIVE SIGNATURE** on this form, fax back to **631-240-8955**
- You will receive an e-mail once you are fully registered
- Click **RETURN TO MAIN** and then **LOGOUT** to finish the process

****PLEASE NOTE THAT SUBMITTING ONLY AN INTERNAL CONFERENCE REQUEST FORM DOES NOT REGISTER YOU FOR OUR WORKSHOPS/CONFERENCES – IT MUST BE DONE THROUGH THE ESB REGIONAL CATALOG****

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