

A Workspace Opportunity to Collaborate in Earth and Space Sciences Curriculum Development

Presented by Brian Vorwald



It is expected that regents ESS courses (formerly Physical Setting/Earth Science) be fully aligned with the New York State P-12 Science Standards (NYSSLS) in the 2025-26 school year. For educators looking to adapt available high-quality storylines or write their own storyline, this workspace might be for you. The goal of this workshop will be to collaboratively develop the details of a unit and share it with the participants. It is presumed that participants will

have a working understanding of the three-dimensional pedagogy of the NYSSLS. It is highly recommended that educators from the same school/department attend and work together on a common project.

Session 1:

- Participants will share their prepared ideas for the unit they want to adapt and develop. Included will be strategies for integrating portions of the Earth and Space Science Reference Tables (2024 edition) into instruction if they are aligned with the unit.
- Included will be instruction on the fundamentals of unit development that align with a student-centered classroom, using the pedagogical shift and 3-dimensional learning expected with the NYSSLS/NGSS.
- Available open-source materials will be used as samples of NYSSLS or NGSS aligned ESS curricula.
- We will review resources to evaluate lessons and assessments.
- Using shared documents, each group will develop their ideas for a cohesive 3-D unit in ESS. The goal will be to start with an engaging lesson, student questions, and initial student thinking. Over the course of the unit, students will use the Science and Engineering Practices (SEPs) to develop understanding of the Disciplinary Core Idea (DCI).

Intersession Work

Educators that continue developing their project with evidence on the uploaded documents will receive up to an additional 3 CTLE hours.

Session 2:

- The fundamentals of developing summative regents exam clusters will be reviewed.
- Participants will review sample clusters and see how each item is aligned to NYSSLS.

- Participants will continue building the series of lesson plans from Session 1 and their Intersession work using their shared documents.

Intersession Work

Educators that continue developing their project with evidence on the uploaded documents will receive up to an additional 3 CTLE hours.


Session 3:

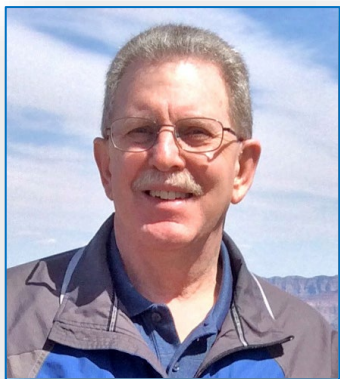
Participants will continue building their series of lesson plans. If time permits, participants will develop student pages for the 3D activities identified in the lesson plans. Each group will upload their project and make a brief presentation to the whole group

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

DATES:	January 8, April 1 & 10, 2025 (must attend all days)
TIME:	8:30 am – 2:30 pm
COST:	\$475 for subscribers* / \$550 for non-subscribers (includes coffee/tea & buffet lunch) <i>*For those districts who <u>subscribe</u> to the ESBOCES Comprehensive Curriculum Development Service – FREE for a maximum of 1 participant. Additional registrations are discounted at a rate of \$475. **For those districts who <u>do not subscribe</u> to the ESBOCES Comprehensive Curriculum Development Service the cost is \$550 per participant.</i>
AUDIENCE:	Regents Earth and Space Science Teachers and Science Leaders
LOCATION:	Instructional Support Center at Sequoya, 750 Waverly Avenue, Holtsville
REGISTER:	https://www.mylearningplan.com/WebReg/ActivityProfile.asp?D=10057&I=4934174

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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.