



Region One ESC Science Professional Development Sessions

• Putting 3-Dimensional Science into Practice:

Participants will prepare for implementation of high-quality science instruction based on the New Science TEKS for specified strands. They will also have the opportunity to engage in preparing for classroom instruction to improve student learning outcomes using phenomena-based, three dimensional instruction and activities. The following sessions are grade-banded and each focuses on a particular strand of the New Science TEKS.

- **K-2:** Matter & its Properties; Force, Motion & Energy; Earth & Space; Organisms & Environments
- **3-5:** Matter & Energy; Force, Motion & Energy; Earth & Space; Organisms & Environments
- **6-8:** Matter & Energy; Force, Motion & Energy; Earth & Space; Organisms & Environments
- **Biology:** Biomolecules & Cellular Processes; Mechanisms of Genetics; Evolution & Mechanisms of Change; Interactions in Biological Systems
- **Chemistry & Physics:** assorted topics

• Empowering Science Instruction: 3-D Instruction for Campus Leaders

This workshop is designed for K-12 campus administrators & leaders to deepen their understanding of three-dimensional (3D) science teaching and learning. By attending, you'll gain tools and insights to effectively evaluate and support science teachers as they implement 3D science instruction, aligned with the newly revised Science TEKS.

• Literacy in a 3-Dimensional Science Classroom

Participants will learn strategies and engage in activities that target the four language domains: speaking, writing, reading, and listening (SWRL). We will explore components of 3-Dimensional Science Instruction that consistently integrate literacy practices; not only helping emergent bilingual students, but all students in the science classroom. Additionally, educators will learn how to positively impact instruction and student learning by embedding reading and writing into daily instructional routines.

• Using Data For Effective Targeted Instruction in Science

Participants will learn data analysis strategies to use on their district or campus assessment reports to construct targets and targeted lessons. We will teach the process to look beyond the CORRECT ANSWER column in order to identify strategic re-teaching targets.

Stay informed about upcoming science professional development sessions by checking the Region One ESC PD website using the link below. All sessions can be customized and presented at your Campus or District.

Please contact the Science Program for more information.

Contact Info:

Liana Lopez, Director
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(956) 984-6154

Fill out the form to submit your
Science PD Preferences
<https://ggle.io/7JWX>



<https://apps.esc1.net/ProfessionalDevelopment/RegionOne>

Region One ESC | 1900 W. Schunior Edinburg, TX 78541



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- **Thinking Like a Scientist: Recurring Themes & Concepts in a K-2 Classroom**

Join us as we explore the Recurring Themes and Concepts of the Science TEKS. During this session, teachers will engage in strategies to capture the natural curiosity of young minds by integrating real-world phenomena into their science instruction. Experience, first-hand, as we model how to best incorporate the RTCs into K-2 instruction to guide students towards conceptual understanding of Science content.

- **Segmented Learning & Formative Assessments in a 3-Dimensional Science Classroom**

Constructing clear learning targets and appropriate segments with rigorous formative assessments are essential to the success of our students with the increasing complexity of the STAAR assessments. Participants will engage in TEKS analysis and segment construction to ensure student understanding at the level of STAAR.

- **Digital Tools in a 3-Dimensional Science Classroom**

Participants will explore various digital tools and strategies to support instruction of all learners in the science classroom. Interact with the 3-dimensions of science instruction (SEPs, RTCs, & Content) and social-emotional learning (SEL) using technology while participating in digital activities that you can use in your classroom immediately.

- **Science Student Success Academies**

Science student academies for grades 5, 8, and Biology. Academies will focus on critical content for each respective course and are customized based on local district/campus data. Students will engage in critical thinking, collaboration, and exploration of current science concepts through hands-on investigations, games, and best practices in science instruction to meet the needs of all learners.

Academies can be offered on site or at the ESC & a campus representative must be present during each session

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