

## Professional Learning Workshops from *Phenomenon Science Education*



Workshops on Three-Dimensional Standards and Phenomena	Length	Format
<p><b><i>Introduction to Phenomena</i></b>                      A first-touch exploration of three-dimensional standards derived from <i>A Framework for K-12 Science Education</i> and the use of aligned real-world science phenomena to focus student-centered classroom activities</p>	8 hours	In-Person or Online
<p><b><i>Standards and Phenomena I: Evaluating Classroom Activities</i></b>                      A detailed study of making phenomenon-based, standards-aligned activities and lessons work in your student-centered classroom</p>	16 hours	In-Person or Online
<p><b><i>Standards and Phenomena II: Writing Classroom Assessments</i></b>                      A detailed study of phenomenon-based classroom assessments aligned to <i>Framework</i>-based three-dimensional state standards</p>	16 hours	In-Person or Online
<p><b><i>Standards and Phenomena Bundle</i></b>                      We can bundle <i>Introduction to Phenomena</i> together with <i>Standards and Phenomena I</i> to create a three-day combined session.</p>	24 hours	In-Person
<p><b><i>Digging into Three-Dimensional Standards</i></b>                      For alumni of <i>Standards and Phenomena I</i>, we offer discussions of student proficiency and phenomena for a standard of your choice.</p>	2 hours	Online
<p><b><i>Writing Classroom Activities in Three Dimensions</i></b>                      A writing workshop providing instruction and practice in the design of phenomenon-based activities aligned to three-dimensional standards</p>	40 hours	In-Person
<p><b><i>Writing Assessments in Three Dimensions</i></b>                      A writing workshop providing instruction and practice in the design of phenomenon-based performance task assessments aligned to three-dimensional standards, at the classroom formative and summative levels</p>	40 hours	In-Person

Workshop List Continued on Next Page

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Texas-Focused Workshops on Phenomena and the New TEKS	Length	Format
<p><b><i>Introduction to Phenomena for TEKS</i></b>                      A first-touch exploration of the new TEKS and the use of TEKS-aligned real-world science phenomena to focus student-centered classroom activities</p>	8 hours	In-Person or Online
<p><b><i>TEKS and Phenomena I: Evaluating Classroom Activities</i></b>                      A detailed study of making phenomenon-based, TEKS-aligned activities and lessons work in your student-centered classroom</p>	16 hours	In-Person or Online
<p><b><i>TEKS and Phenomena II: Writing Classroom Assessments</i></b>                      A detailed study of phenomenon-based classroom assessments aligned to the new TEKS</p>	16 hours	In-Person or Online
<p><b><i>TEKS and Phenomena Bundle</i></b>                      We can bundle <i>Introduction to Phenomena for TEKS</i> together with <i>TEKS and Phenomena I</i> to create a three-day combined session.</p>	24 hours	In-Person
<p><b><i>Writing Classroom Activities to the New TEKS</i></b>                      A writing workshop providing instruction and practice in the design of phenomenon-based classroom activities aligned to the new TEKS</p>	40 hours	In-Person
<p><b><i>Writing Assessments to the New TEKS</i></b>                      A writing workshop providing instruction and practice in the design of phenomenon-based performance task assessments aligned to the new TEKS, at both the classroom formative and summative levels</p>	40 hours	In-Person

Workshop List Continued on Next Page

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High School Earth Science Workshops	Length	Format
<p><b><i>Heat and Energy in Earth's Tectonic System</i></b> This workshop is an exploration of cycles of matter and energy within Earth's tectonic system from a geological perspective. Designed to support high school teachers following three-course models that integrate Chemistry and Earth Science, the content is relevant to anyone who wants to improve their understanding of how heat flow within Earth's interior results in the creation and movement of tectonic plates.</p>	16 hours	In-Person
<p><b><i>Plate Tectonics and Earth's Physical Geography</i></b> This workshop is an exploration of cycles of matter and energy in Earth's tectonic system and the effect tectonics has in shaping the planet's surface. Designed to support high school teachers following three-course models that integrate Physics and Earth Science, the content is relevant to anyone who wants to improve their understanding of how heat flow in Earth's interior results in the creation and movement of tectonic plates – and how those plate movements help build the geography upon which we live.</p>	16 hours	In-Person

Other Phenomenon-Based Workshops	Length	Format
<p><b><i>Using Phenomena in Non-NGSS States</i></b> An exploration of the concept of using real-world science examples to focus classroom activities and assessments aligned to state standards</p>	8 hours	In-Person or Online

<https://www.phenomenon.science/standards-and-phenomena-courses>

<https://www.phenomenon.science/standards-and-phenomena-courses-texas>

<https://www.phenomenon.science/science-courses>

Contact us to schedule a session: [josh@phenomenon.science](mailto:josh@phenomenon.science)