



# CALENDAR PLANNING DOCUMENT

## Level 5

This calendar planning document is intended to help teachers map out their instructional days across the school year. This document shows the lessons from all Level 5 modules and Spotlight Lessons and includes recommendations for which lessons might need to be split over two days. The content learning cycle, as well as the associated 7E instructional phases, are broken down by lesson.

In addition, this document lists the Texas Essential Knowledge and Skills (TEKS) associated with each lesson, extension activities that can be incorporated into instructional days, and various assessment opportunities. To further assist with planning, the calendar shows module investigations and highlights lessons that require advance preparation.

**MODULE 1**

**Earth's Processes**

Week	Day 1	Day 2	Day 3	Day 4	Day 5
1	<p><b>LESSON 1:</b> Launch through Land (Wonder; Engage)</p> <p><b>TEKS:</b> 4.10B, 5.10A, 5.10C, 5.11</p> <p><b>ASSESSMENT:</b> Check for Understanding</p>	<p><b>LESSON 2:</b> Launch through Develop Anchor Evidence Organizer (Organize; Explore)</p> <p><b>TEKS:</b> 3.11A, 4.10B, 5.10A, 5.10B, 5.10C, 5.11</p> <p><b>ASSESSMENT:</b> Check for Understanding</p>	<p><b>LESSON 2:</b> Identify Natural Resources of the Chihuahuan Desert through Land (Organize; Explore)</p> <p><b>TEKS:</b> 3.11A, 4.10B, 5.10A, 5.10B, 5.10C, 5.11</p> <p><b>ADVANCED PREP:</b> Prepare ice cubes for Lesson 3 ocean model.</p>	<p><b>LESSON 3:</b> Launch through Land (Wonder, Organize; Engage, Explore)</p> <p><b>TEKS:</b> 3.6C, 4.10A, 4.10C, 5.10A</p> <p><b>INVESTIGATION:</b> Ocean model</p> <p><b>ASSESSMENT:</b> Check for Understanding</p>	<p><b>LESSON 4:</b> Launch through Land (Reveal, Distill, Organize; Explore, Explain)</p> <p><b>TEKS:</b> 3.6B, 4.10A, 5.6D, 5.10A</p> <p><b>ASSESSMENT:</b> Check for Understanding</p>
2	<p><b>LESSON 5:</b> Launch through Land (Reveal, Distill; Explore, Explain)</p> <p><b>TEKS:</b> 4.10A, 5.6D, 5.10A</p> <p><b>ASSESSMENT:</b> Check for Understanding</p>	<p><b>LESSON 6:</b> Launch through Land (Distill, Know; Explain, Extend)</p> <p><b>TEKS:</b> 4.10A, 5.6D, 5.10A</p> <p><b>ADVANCED PREP:</b> Prepare mountain model and stream tables for Lesson 7.</p> <p><b>ASSESSMENT:</b> Conceptual Checkpoint</p>	<p><b>LESSON 7:</b> Launch through Observe Mountain Model (Wonder, Organize, Reveal; Engage, Explore)</p> <p><b>TEKS:</b> 4.10B, 5.10C</p> <p><b>ASSESSMENT:</b> Check for Understanding</p> <p><b>INVESTIGATION:</b> Water observation</p>	<p><b>LESSON 7:</b> Plan River Models through Land (Organize, Reveal; Explore)</p> <p><b>TEKS:</b> 4.10B, 5.10C</p> <p><b>INVESTIGATIONS:</b> Mountain models, river models</p> <p><b>ASSESSMENT:</b> Check for Understanding</p>	<p><b>LESSON 8:</b> Launch through Build and Observe River Models (Reveal; Explore)</p> <p><b>TEKS:</b> 4.10B, 5.10C</p> <p><b>INVESTIGATION:</b> River models</p> <p><b>ASSESSMENT:</b> Check for Understanding</p>
3	<p><b>LESSON 8:</b> Discuss River Model Results through Land (Reveal, Distill; Explore, Explain)</p> <p><b>TEKS:</b> 4.10B, 5.10C</p> <p><b>INVESTIGATION:</b> River models</p> <p><b>ADVANCED PREP:</b> Prepare Ice block for glacier model in Lesson 9.</p> <p><b>ASSESSMENT:</b> Check for Understanding</p>	<p><b>LESSON 9:</b> Launch through Describe Valley Formation (Organize, Reveal, Distill; Explore, Explain)</p> <p><b>TEKS:</b> 4.10B, 5.10C</p> <p><b>INVESTIGATION:</b> Glacier models</p>	<p><b>LESSON 9:</b> Observe Glacier Model through Land (Reveal, Distill; Explore, Explain)</p> <p><b>ASSESSMENT:</b> Check for Understanding</p>	<p><b>LESSON 9:</b> Extension (Reveal, Distill; Explore, Explain)</p> <p><b>EXTENSION:</b> Research different ways water shapes landforms.</p>	<p><b>LESSON 10:</b> Launch through Land (Organize, Reveal; Explore)</p> <p><b>TEKS:</b> 4.10B, 5.10C</p> <p><b>INVESTIGATION:</b> Rio Grande model</p> <p><b>ASSESSMENT:</b> Check for Understanding</p>

Week	Day 1	Day 2	Day 3	Day 4	Day 5
4	<p><b>LESSON 11:</b> Launch through Update Anchor Chart (Reveal, Distill; Explore, Explain)</p> <p><b>TEKS:</b> 4.10B, 5.10C</p> <p><b>INVESTIGATION:</b> Sediment investigation</p>	<p><b>LESSON 11:</b> Model Sand Dune Formation through Land (Organize, Reveal, Distill; Explore, Explain)</p> <p><b>TEKS:</b> 4.10B, 5.10C</p> <p><b>INVESTIGATION:</b> Obstacle investigation</p> <p><b>ASSESSMENT:</b> Check for Understanding</p>	<p><b>LESSON 11:</b> Extension (Reveal; Explain)</p> <p><b>TEKS:</b> 4.10B, 5.10C</p> <p><b>EXTENSION:</b> Research how the size and shape of the Mississippi delta has changed over time.</p>	<p><b>LESSON 12:</b> Launch through Land (Distill, Know; Explain, Elaborate, Extend)</p> <p><b>TEKS:</b> 4.10B, 5.10C</p> <p><b>ASSESSMENT:</b> Conceptual Checkpoint</p>	<p><b>LESSON 12:</b> Extension (Distill, Know; Explain, Elaborate)</p> <p><b>TEKS:</b> 4.10B, 5.10C</p> <p><b>EXTENSION:</b> Research examples of landforms on other planets. (Distill)</p> <p>Research and compare sand dunes. (Know)</p>
5	<p><b>LESSON 13:</b> Launch through Land (Wonder, Organize, Reveal; Engage, Explore)</p> <p><b>TEKS:</b> 5.1B, 5.1C, 5.1D, 5.1E, 5.1G, 5.2A, 5.3A</p> <p><b>INVESTIGATIONS:</b> Sedimentary rock observation, sedimentary rock formation model</p> <p><b>ADVANCED PREP:</b> Prepare sponges for the compaction and cementation model in Lesson 14.</p> <p><b>ASSESSMENT:</b> Check for Understanding</p>	<p><b>LESSON 13:</b> Extension (Organize; Explore)</p> <p><b>TEKS:</b> 5.1B, 5.1C, 5.1D, 5.1E, 5.1G, 5.2A, 5.3A</p> <p><b>EXTENSION:</b> Research different types of rocks and how they form. Read poems to further explore rocks and minerals. (Organize)</p>	<p><b>LESSON 14:</b> Launch through Update Sedimentary Rock Model (Reveal, Organize; Explore)</p> <p><b>TEKS:</b> 5.1B, 5.1C, 5.1D, 5.1E, 5.1G, 5.3A</p> <p><b>INVESTIGATION:</b> Compaction and cementation model</p> <p><b>ASSESSMENT:</b> Check for Understanding</p>	<p><b>LESSON 14:</b> Read About Sedimentary Rocks through Land (Reveal, Organize, Distill; Explore, Explain)</p> <p><b>TEKS:</b> 5.1B, 5.1C, 5.1D, 5.1E, 5.1G, 5.3A</p>	<p><b>LESSON 14:</b> Extension (Reveal; Explain)</p> <p><b>TEKS:</b> 5.1B, 5.1C, 5.1D, 5.1E, 5.1G, 5.3A</p> <p><b>EXTENSION:</b> Make an additional model and compare each model’s strengths and limitations.</p> <p>Read the poem and explain how materials in these landforms lead to creation of sedimentary rock.</p>
6	<p><b>LESSON 15:</b> Launch through Gather Information About Fossil Fuels (Wonder, Organize, Reveal; Engage, Explore)</p> <p><b>TEKS:</b> 4.11A, 4.11C, 5.10B</p>	<p><b>LESSON 15:</b> Develop a Fossil Fuel Formation Model through Land (Reveal; Explore)</p> <p><b>TEKS:</b> 4.11A, 4.11C, 5.10B</p> <p><b>ASSESSMENT:</b> Check for Understanding</p>	<p><b>LESSON 15:</b> Extension (Reveal; Explore)</p> <p><b>TEKS:</b> 4.11A, 4.11C, 5.10B</p> <p><b>EXTENSION:</b> Research renewable and nonrenewable resources and energy that people produce in Texas.</p>	<p><b>LESSON 16:</b> Launch through Land (Distill, Know; Explain, Extend)</p> <p><b>TEKS:</b> 5.6D, 5.10B</p> <p><b>ASSESSMENT:</b> Conceptual Checkpoint</p>	<p><b>LESSON 17:</b> Launch through Land (Wonder, Organize, Reveal; Engage, Explore)</p> <p><b>TEKS:</b> 4.11A, 5.10A, 5.11</p> <p><b>ASSESSMENTS:</b> Check for Understanding, Engineering Challenge</p>

Week	Day 1	Day 2	Day 3	Day 4	Day 5
7	<p><b>LESSON 18:</b> Launch through Land (Organize, Reveal; Explore)</p> <p><b>TEKS:</b> 5.11</p> <p><b>ASSESSMENTS:</b> Check for Understanding, Engineering Challenge</p>	<p><b>LESSON 19:</b> Launch through Land (Reveal; Explore)</p> <p><b>TEKS:</b> 5.11</p> <p><b>ASSESSMENTS:</b> Check for Understanding, Engineering Challenge</p>	<p><b>LESSON 20:</b> Launch through Land (Reveal; Explore)</p> <p><b>TEKS:</b> 5.11</p> <p><b>ASSESSMENTS:</b> Check for Understanding, Engineering Challenge</p>	<p><b>LESSON 21:</b> Launch through Land (Distill; Explain)</p> <p><b>TEKS:</b> 5.11</p> <p><b>ASSESSMENTS:</b> Check for Understanding, Engineering Challenge</p>	<p><b>LESSON 22:</b> Launch through Land (Know; Elaborate)</p> <p><b>TEKS:</b> 3.11B, 3.11C, 5.11</p> <p><b>ASSESSMENT:</b> Check for Understanding</p>
8	<p><b>LESSON 22:</b> Extension (Know; Elaborate)</p> <p><b>TEKS:</b> 3.11B, 3.11C, 5.11</p> <p><b>EXTENSION:</b> Conduct additional research on the average amount of water a Texas resident uses and convert the amount to acre-feet.</p>	<p><b>LESSON 23:</b> Launch through Land (Distill; Explain)</p> <p><b>TEKS:</b> 5.6D, 5.10A, 5.10B, 5.10C, 5.11</p> <p><b>ASSESSMENTS:</b> Check for Understanding, Socratic Seminar</p>	<p><b>LESSON 24:</b> Launch through Land (Know; Extend)</p> <p><b>TEKS:</b> 5.6D, 5.10A, 5.10B, 5.10C, 5.11</p> <p><b>ASSESSMENT:</b> End-of-Module Assessment</p>	<p><b>LESSON 25:</b> Launch through Land (Know; Elaborate, Extend)</p> <p><b>TEKS:</b> 5.6D, 5.10A, 5.10B, 5.10C, 5.11</p> <p><b>ASSESSMENT:</b> End-of-Module Assessment Debrief</p>	N/A

**SPOTLIGHT LESSONS ON PHYSICAL PROPERTIES OF MATTER**

Week	Day 1	Day 2	Day 3	Day 4	Day 5
9	<p><b>LESSON 1:</b> Launch through Land</p> <p><b>TEKS:</b> 3.6A, 3.6B, 4.6A, 5.6A</p> <p><b>ASSESSMENT:</b> Check for Understanding</p>	<p><b>LESSON 2:</b> Launch through Measure Volume</p> <p><b>TEKS:</b> 3.6A, 3.6B, 4.6A, 5.6A</p> <p><b>INVESTIGATION:</b> Measure mass and volume investigation</p>	<p><b>LESSON 2:</b> Determine Mass and Volume of Gas through Land</p> <p><b>TEKS:</b> 3.6A, 3.6B, 4.6A, 5.6A</p> <p><b>INVESTIGATION:</b> Density column demonstration</p> <p><b>ASSESSMENT:</b> Check for Understanding</p>	<p><b>LESSON 3:</b> Launch through Land</p> <p><b>TEKS:</b> 3.6A, 3.6B, 4.6A, 5.6A</p> <p><b>ASSESSMENT:</b> Check for Understanding</p>	<p><b>LESSON 4:</b> Launch through Investigate Materials Before Mixing</p> <p><b>TEKS:</b> 5.1C, 5.1D, 5.1E, 5.2B, 5.2C</p>
10	<p><b>LESSON 4:</b> Investigate Materials After Mixing through Land</p> <p><b>TEKS:</b> 5.1C, 5.1D, 5.1E, 5.2B, 5.2C</p> <p><b>INVESTIGATION:</b> Mixing investigation</p> <p><b>ASSESSMENT:</b> Check for Understanding</p>	<p><b>LESSON 5:</b> Launch through Land</p> <p><b>TEKS:</b> 5.1C, 5.1D, 5.1E, 5.4A, 5.4B</p> <p><b>INVESTIGATIONS:</b> Magnetism of different materials demonstration, compare magnetism of mixed materials investigation, use magnetism to clean up pollution investigation</p> <p><b>ASSESSMENT:</b> Check for Understanding</p>	<p><b>LESSON 5:</b> Extension</p> <p><b>TEKS:</b> 5.1C, 5.1D, 5.1E, 5.4A, 5.4B</p> <p><b>EXTENSION:</b> Research how reducing, reusing, and recycling could help to prevent pollution.</p>	<p><b>LESSON 6:</b> Launch through Land</p> <p><b>TEKS:</b> 5.6A, 5.6B, 5.6C</p> <p><b>ASSESSMENT:</b> End-of-Spotlight Assessment</p>	<p><b>LESSON 7:</b> Launch through Land</p> <p><b>TEKS:</b> 5.6A, 5.6B, 5.6C</p> <p><b>ASSESSMENT:</b> End-of-Spotlight Debrief</p>
11	<p><b>Benchmark Assessment Prep:</b> Review and reteach for Benchmark Assessment.</p>	<p><b>ASSESSMENT: Benchmark Assessment 1</b></p>	<p><b>ASSESSMENT: Benchmark Assessment 1 Debrief</b></p>	N/A	N/A

## MODULE 2

### Ecosystems

Week	Day 1	Day 2	Day 3	Day 4	Day 5
12	<p><b>LESSON 1:</b> Launch through Read About and Discuss Mangrove Tree Ecosystems (Wonder; Engage)</p> <p><b>TEKS:</b> 5.12A</p> <p><b>ADVANCED PREP:</b> Leave 50 g potting soil out to dry Lesson 5. Prepare green onion plants for Lesson 5.</p>	<p><b>LESSON 1:</b> Explore Organism Interactions through Land (Wonder; Engage)</p> <p><b>TEKS:</b> 5.12A</p> <p><b>ASSESSMENT:</b> Check for Understanding</p>	<p><b>LESSON 2:</b> Launch through Model Organism Interactions (Organize; Explore)</p> <p><b>TEKS:</b> 4.12B, 5.12A</p>	<p><b>LESSON 2:</b> Develop Anchor Model through Land (Organize; Explore)</p> <p><b>TEKS:</b> 4.12B, 5.12A</p> <p><b>ASSESSMENT:</b> Check for Understanding</p>	<p><b>LESSON 3:</b> Launch through Develop Initial Claim (Reveal; Explore)</p> <p><b>TEKS:</b> 4.12A, 5.12A, 5.12B</p> <p><b>ADVANCED PREP:</b> Purchase 1 carton of raspberries, and transfer the raspberries to a sealed container (10 days before Lesson 13).</p>
13	<p><b>LESSON 3:</b> Develop Fair Test Criteria through Land (Reveal; Explore)</p> <p><b>TEKS:</b> 4.12A, 5.12A, 5.12B</p> <p><b>INVESTIGATION:</b> Fair test demonstration</p> <p><b>ASSESSMENT:</b> Check for Understanding</p>	<p><b>LESSON 4:</b> Launch through Land (Reveal; Explore)</p> <p><b>TEKS:</b> 4.12A, 5.12A</p> <p><b>ASSESSMENT:</b> Check for Understanding</p>	<p><b>LESSON 5:</b> Launch through Land (Reveal, Distill, Wonder; Explore, Explain, Engage)</p> <p><b>TEKS:</b> 4.12A, 5.12A, 5.12B</p> <p><b>INVESTIGATIONS</b> Teacher plant growth investigation</p> <p><b>ASSESSMENT:</b> Check for Understanding</p>	<p><b>LESSON 5:</b> Extension</p> <p><b>TEKS:</b> 4.12A, 5.12A, 5.12B</p> <p><b>EXTENSION:</b> Research life cycle of a sequoia tree.</p>	<p><b>LESSON 6:</b> Launch through Land (Organize, Reveal; Explore)</p> <p><b>TEKS:</b> 4.12A, 4.12B, 5.12A, 5.12B</p> <p><b>ASSESSMENT:</b> Check for Understanding</p>

Week	Day 1	Day 2	Day 3	Day 4	Day 5
14	<p><b>LESSON 7:</b> Launch through Land (Reveal, Distill, Know; Explore, Explain, Extend)</p> <p><b>TEKS:</b> 4.12B, 5.12A, 5.12B</p> <p><b>ADVANCED PREP:</b> (6 days before Lesson 13) Purchase 2 cartons of raspberries. Transfer 1 carton to a sealed container.</p> <p>(8 days before Lesson 15) Transfer 1 carton of raspberries into containers filled with sand and soil.</p> <p><b>ASSESSMENT: Conceptual Checkpoint</b></p>	<p><b>LESSON 8:</b> Launch through Develop Initial Claim (Wonder, Organize, Reveal; Engage, Explore)</p> <p><b>TEKS:</b> 5.12A, 5.12C</p>	<p><b>LESSON 8:</b> Examine Historical Yellowstone Data through Land (Wonder, Organize, Reveal; Engage, Explore)</p> <p><b>TEKS:</b> 5.12A, 5.12C</p> <p><b>ASSESSMENT: Check for Understanding</b></p>	<p><b>LESSON 9:</b> Launch through Model Feeding Interactions (Reveal, Distill; Explore, Explain)</p> <p><b>TEKS:</b> 3.12B, 4.12B, 5.12A, 5.12B, 5.12C</p>	<p><b>LESSON 9:</b> Update Anchor Model through Land (Reveal, Distill; Explore, Explain)</p> <p><b>TEKS:</b> 3.12B, 4.12B, 5.12A, 5.12B, 5.12C</p> <p><b>ASSESSMENT: Check for Understanding</b></p>
15	<p><b>LESSON 10:</b> Launch through Model Bird Beaks (Wonder, Organize, Reveal; Engage, Explore)</p> <p><b>TEKS:</b> 3.13A, 5.13A</p>	<p><b>LESSON 10:</b> Identify Animals' Environments through Land (Wonder, Organize, Reveal; Engage, Explore)</p> <p><b>TEKS:</b> 3.13A, 5.13A</p> <p><b>INVESTIGATION:</b> Model bird beak stations</p> <p><b>ASSESSMENT: Check for Understanding</b></p>	<p><b>LESSON 11:</b> Launch through Land (Organize, Reveal, Distill; Explore, Explain)</p> <p><b>TEKS:</b> 3.13A, 4.13A, 5.13A, 5.13B</p> <p><b>ASSESSMENT: Check for Understanding</b></p> <p><b>ADVANCED PREP:</b> (2 days before Lesson 13) Purchase 1 carton of raspberries, and transfer the raspberries to a sealed container.</p> <p>(2 weeks before Lesson 21) Plant radish seeds for radish growth investigation.</p>	<p><b>LESSON 12:</b> Launch through Land (Organize, Reveal, Distill; Explore, Explain)</p> <p><b>TEKS:</b> 4.13B, 5.13B</p> <p><b>ASSESSMENT: Check for Understanding</b></p>	<p><b>LESSON 12:</b> Extension (Distill; Explain)</p> <p><b>TEKS:</b> 4.13B, 5.13B</p> <p><b>EXTENSION:</b> Research organisms observed to construct a food web.</p>

Week	Day 1	Day 2	Day 3	Day 4	Day 5
16	<p><b>LESSON 13:</b> Launch through Land (Wonder, Organize, Reveal; Engage, Explore)</p> <p><b>TEKS:</b> 4.12B, 5.12A</p> <p><b>INVESTIGATION:</b> Mold growth on raspberries</p> <p><b>ASSESSMENT:</b> Check for Understanding</p>	<p><b>LESSON 14:</b> Launch through Land (Reveal, Distill; Explore, Explain)</p> <p><b>TEKS:</b> 4.12B, 5.12A, 5.12B</p> <p><b>ASSESSMENT:</b> Check for Understanding</p>	<p><b>LESSON 15:</b> Launch through Land (Wonder, Organize, Reveal; Engage, Explore)</p> <p><b>TEKS:</b> 4.12B, 5.12A</p> <p><b>INVESTIGATION:</b> Sand and soil observation</p> <p><b>ADVANCED PREP:</b> Prepare sand and soil water mixtures for Lesson 16.</p> <p><b>ASSESSMENT:</b> Check for Understanding</p>	<p><b>LESSON 16:</b> Launch through Explore Nutrient-Deficient Plants (Organize, Reveal, Distill; Explore, Explain)</p> <p><b>TEKS:</b> 4.12B, 5.12A, 5.12B</p> <p><b>INVESTIGATION:</b> Nutrient testing</p>	<p><b>LESSON 16:</b> Analyze Data through Land (Organize, Reveal, Distill; Explore, Explain)</p> <p><b>TEKS:</b> 4.12B, 5.12A, 5.12B</p> <p><b>ASSESSMENT:</b> Check for Understanding</p>
17	<p><b>LESSON 17:</b> Launch through Model Movement of Matter (Distill, Know; Explain, Extend)</p> <p><b>TEKS:</b> 4.12B, 4.13B, 5.12A, 5.12B, 5.13A, 5.13B</p> <p><b>INVESTIGATIONS:</b> Model movement of matter</p>	<p><b>LESSON 17:</b> Update Anchor Model through Land (Distill, Know; Explain, Extend)</p> <p><b>TEKS:</b> 4.12B, 4.13B, 5.12A, 5.12B, 5.13A, 5.13B</p> <p><b>ASSESSMENT:</b> Conceptual Checkpoint</p>	<p><b>LESSON 18:</b> Launch through Land (Wonder, Organize, Reveal; Engage, Explore)</p> <p><b>TEKS:</b> 5.12B</p> <p><b>ASSESSMENT:</b> Check for Understanding</p>	<p><b>LESSON 19:</b> Launch through Land (Organize, Reveal, Distill; Explore, Explain)</p> <p><b>TEKS:</b> 5.13A</p> <p><b>ASSESSMENT:</b> Check for Understanding</p>	<p><b>LESSON 20:</b> Launch through Land (Organize, Reveal, Distill; Explore, Explain)</p> <p><b>TEKS:</b> 3.13A, 3.13B, 5.13A</p> <p><b>ASSESSMENT:</b> Check for Understanding</p>
18	<p><b>LESSON 21:</b> Launch through Land (Organize, Reveal, Distill; Explore, Explain)</p> <p><b>TEKS:</b> 4.12A, 5.12A</p> <p><b>INVESTIGATION:</b> Radish growth investigation</p> <p><b>ASSESSMENT:</b> Check for Understanding</p>	<p><b>LESSON 22:</b> Launch through Update Anchor Chart (Distill, Know; Explain, Extend)</p> <p><b>TEKS:</b> 4.12A, 5.12A, 5.12B</p>	<p><b>LESSON 22:</b> Conceptual Checkpoint through Land (Distill, Know; Explain, Extend)</p> <p><b>TEKS:</b> 4.12A, 5.12A, 5.12B</p> <p><b>ASSESSMENT:</b> Conceptual Checkpoint</p>	<p><b>LESSON 23:</b> Launch through Land (Organize, Reveal, Distill; Explore, Explain)</p> <p><b>TEKS:</b> 3.12B, 4.12B, 5.12B, 5.12C</p> <p><b>ASSESSMENTS:</b> Check for Understanding, Engineering Challenge</p>	<p><b>LESSON 23:</b> Extension (Organize, Reveal, Distill; Explore, Explain)</p> <p><b>TEKS:</b> 3.12B, 4.12B, 5.12B, 5.12C</p> <p><b>EXTENSION:</b> Create another ecosystem model by changing a variable. Create model for a local ecosystem.</p>



Week	Day 1	Day 2	Day 3	Day 4	Day 5
19	<p><b>LESSON 24:</b> Launch through Land (Organize, Know; Explore, Extend)</p> <p><b>TEKS:</b> 3.12B, 4.12B, 5.12A</p> <p><b>ASSESSMENTS:</b> Check for Understanding, Engineering Challenge</p>	<p><b>LESSON 25:</b> Launch through Land (Know; Extend)</p> <p><b>TEKS:</b> 3.12B, 4.12B, 5.12A, 5.12B</p> <p><b>ASSESSMENTS:</b> Check for Understanding, Engineering Challenge</p>	<p><b>LESSON 26:</b> Launch through Land (Know; Extend)</p> <p><b>TEKS:</b> 5.12B, 5.12C</p> <p><b>ASSESSMENTS:</b> Check for Understanding, Engineering Challenge</p>	<p><b>LESSON 27:</b> Launch through Land (Distill; Explain)</p> <p><b>TEKS:</b> 5.12A, 5.12B, 5.12C, 5.13A, 5.13B</p> <p><b>ASSESSMENTS:</b> Check for Understanding, Socratic Seminar</p>	<p><b>LESSON 28:</b> Launch through Land (Know; Extend)</p> <p><b>TEKS:</b> 5.12A, 5.12B, 5.12C, 5.13A, 5.13B</p> <p><b>ASSESSMENT:</b> End-of-Module Assessment</p>
20	<p><b>LESSON 29:</b> Launch through Land (Know; Extend)</p> <p><b>TEKS:</b> 5.12A, 5.12B, 5.12C, 5.13A, 5.13B</p> <p><b>ASSESSMENT:</b> End-of-Module Assessment Debrief</p>	<p><b>Benchmark Assessment Prep:</b> Review and reteach for Benchmark Assessment.</p>	<p><b>ASSESSMENT:</b> Benchmark Assessment 2</p>	<p><b>ASSESSMENT:</b> Benchmark Assessment 2 Debrief</p>	N/A

### MODULE 3

#### Sun, Earth, and Moon System

Week	Day 1	Day 2	Day 3	Day 4	Day 5
21	<p><b>LESSON 1:</b> Launch through Explore Celestial Navigation (Wonder, Organize, Reveal; Engage, Explore)</p> <p><b>TEKS:</b> 4.9B, 5.9</p> <p><b>ADVANCED PREP:</b> Have students make observations of the sky once a day for 3 consecutive days before Lesson 1.</p>	<p><b>LESSON 1:</b> Identify Patterns through Land (Wonder, Organize, Reveal; Engage, Explore)</p> <p><b>TEKS:</b> 4.9B, 5.9</p> <p><b>ASSESSMENT:</b> Check for Understanding</p>	<p><b>LESSON 2:</b> Launch through Land (Organize; Explore)</p> <p><b>TEKS:</b> 3.9A, 5.9</p> <p><b>ASSESSMENT:</b> Check for Understanding</p>	<p><b>LESSON 3:</b> Launch through Land (Organize, Reveal, Distill; Explore, Explain)</p> <p><b>TEKS:</b> 5.8C, 5.9</p> <p><b>ASSESSMENT:</b> Check for Understanding</p> <p><b>INVESTIGATIONS:</b> Light model, shadow investigation</p>	<p><b>LESSON 3:</b> Extension (Organize, Reveal, Distill; Explore, Explain)</p> <p><b>TEKS:</b> 5.8C, 5.9</p> <p><b>EXTENSION:</b> Supplemental activity on pages 12 and 13 In <i>Explore Light and Optics</i> by Anita Yasuda</p>
22	<p><b>LESSON 4:</b> Launch through Land (Reveal, Distill; Explore, Explain)</p> <p><b>TEKS:</b> 5.8C, 5.9</p> <p><b>ADVANCED PREP:</b> Take a picture of a shadow cast from the school building in the early morning before school and record the time for Lesson 5.</p> <p><b>ASSESSMENT:</b> Check for Understanding</p>	<p><b>LESSON 5:</b> Launch through Land (Organize, Reveal, Distill; Explore, Explain)</p> <p><b>TEKS:</b> 5.8C, 5.9</p> <p><b>ASSESSMENT:</b> Check for Understanding</p>	<p><b>LESSON 6:</b> Launch through Land (Organize, Reveal; Explore)</p> <p><b>TEKS:</b> 3.9B, 5.9</p> <p><b>INVESTIGATION:</b> Earth-view student model</p> <p><b>ASSESSMENT:</b> Check for Understanding</p>	<p><b>LESSON 7:</b> Launch through Land (Organize, Distill; Explore, Explain)</p> <p><b>TEKS:</b> 5.9</p> <p><b>INVESTIGATION:</b> Space-view student model</p> <p><b>ASSESSMENT:</b> Check for Understanding</p>	<p><b>LESSON 8:</b> Launch through Land (Organize, Reveal, Distill; Explore, Explain)</p> <p><b>TEKS:</b> 3.9A, 5.9</p> <p><b>INVESTIGATION:</b> Shadow clock</p> <p><b>ASSESSMENTS:</b> Science Challenge, Check for Understanding</p>
23	<p><b>LESSON 9:</b> Launch through Land (Organize, Reveal, Distill; Explore, Explain)</p> <p><b>TEKS:</b> 3.9A, 5.9</p> <p><b>ASSESSMENTS:</b> Science Challenge, Check for Understanding</p>	<p><b>LESSON 10:</b> Launch through Land (Distill; Explain)</p> <p><b>TEKS:</b> 3.9A, 5.9</p> <p><b>ASSESSMENTS:</b> Science Challenge, Check for Understanding</p>	<p><b>LESSON 11:</b> Launch through Land (Know; Elaborate)</p> <p><b>TEKS:</b> 3.9A, 5.9</p> <p><b>ASSESSMENTS:</b> Science Challenge, Check for Understanding</p>	<p><b>LESSON 12:</b> Launch through Land (Wonder, Organize, Reveal; Engage, Explore)</p> <p><b>TEKS:</b> 4.6A, 5.8C, 5.9</p> <p><b>INVESTIGATION:</b> Explore sunlight's path through atmosphere with lantern and spoon.</p> <p><b>ASSESSMENT:</b> Check for Understanding</p>	<p><b>LESSON 13:</b> Launch through Land (Organize, Reveal, Distill, Know; Explore, Explain, Extend)</p> <p><b>TEKS:</b> 5.8C, 5.9</p> <p><b>ASSESSMENT:</b> Conceptual Checkpoint</p>

Week	Day 1	Day 2	Day 3	Day 4	Day 5
24	<p><b>LESSON 14:</b> Launch through Observe and Infer Patterns (Wonder, Organize, Reveal, Distill; Engage, Explore, Explain)</p> <p><b>TEKS:</b> 3.9A, 4.9B, 5.9</p> <p><b>INVESTIGATION:</b> Space-view model with Moon</p>	<p><b>LESSON 14:</b> Model Moonrise and Moonset through Land (Wonder, Organize, Reveal, Distill; Engage, Explore, Explain)</p> <p><b>TEKS:</b> 3.9A, 4.9B, 5.9</p> <p><b>INVESTIGATION:</b> Earth-view student models with 24-hour clock diagram</p> <p><b>ASSESSMENT:</b> Check for Understanding</p>	<p><b>LESSON 15:</b> Launch through Land (Wonder, Organize; Engage, Explore)</p> <p><b>TEKS:</b> 4.9B, 5.9</p> <p><b>INVESTIGATION:</b> Space-view student models</p> <p><b>ASSESSMENT:</b> Check for Understanding</p>	<p><b>LESSON 16:</b> Launch through Analyze Moonrise and Moonset Data (Reveal, Distill; Explore, Explain)</p> <p><b>TEKS:</b> 4.9B, 5.9</p> <p><b>ADVANCED PREP:</b> Prepare the light ray boxes and black pencil sleeves (1 per group) for Lesson 17.</p>	<p><b>LESSON 16:</b> Model the Moon’s Orbit through Land (Reveal, Distill; Explore, Explain)</p> <p><b>TEKS:</b> 4.9B, 5.9</p> <p><b>INVESTIGATION:</b> Earth-view student models</p> <p><b>ASSESSMENT:</b> Check for Understanding</p>
25	<p><b>LESSON 17:</b> Launch through Land (Organize, Reveal, Distill; Explore, Explain)</p> <p><b>TEKS:</b> 5.8C</p> <p><b>INVESTIGATION:</b> Light ray box investigation</p> <p><b>ASSESSMENT:</b> Check for Understanding</p>	<p><b>LESSON 18:</b> Launch through Land (Organize, Reveal, Distill; Explore, Explain)</p> <p><b>TEKS:</b> 5.8C, 5.9</p> <p><b>ASSESSMENT:</b> Check for Understanding</p>	<p><b>LESSON 19:</b> Launch through Land (Reveal, Distill, Know; Explore, Explain, Extend)</p> <p><b>TEKS:</b> 4.9B, 5.8C, 5.9</p> <p><b>ASSESSMENT:</b> Conceptual Checkpoint</p>	<p><b>LESSON 20:</b> Launch through Land (Wonder, Organize, Reveal, Distill; Engage, Explore, Explain)</p> <p><b>TEKS:</b> 3.9A, 5.8C</p> <p><b>INVESTIGATION:</b> Distance and size investigation</p> <p><b>ADVANCED PREP:</b> Assemble light intensity comparers for Lesson 21.</p> <p><b>ASSESSMENT:</b> Check for Understanding</p>	<p><b>LESSON 21:</b> Launch through Investigate the Effect of Distance on Apparent Brightness (Organize, Reveal, Distill; Explore, Explain)</p> <p><b>TEKS:</b> 5.8C</p> <p><b>INVESTIGATIONS:</b> Distance and apparent brightness investigation</p>
26	<p><b>LESSON 21:</b> Extension (Organize, Reveal, Distill; Explore, Explain)</p> <p><b>TEKS:</b> 5.8C</p> <p><b>EXTENSION:</b> Use light meter apps to confirm approximate measured distance for equal light intensity.</p>	<p><b>LESSON 21:</b> Model the Apparent Brightness of Stars through Land (Organize, Reveal, Distill; Explore, Explain)</p> <p><b>TEKS:</b> 5.8C</p> <p><b>ASSESSMENT:</b> Check for Understanding</p>	<p><b>LESSON 22:</b> Launch through Land (Wonder, Organize, Reveal, Distill; Engage, Explore, Explain)</p> <p><b>TEKS:</b> 5.9</p> <p><b>INVESTIGATION:</b> Earth-view student models, apparent motion of stars</p> <p><b>ASSESSMENT:</b> Check for Understanding</p>	<p><b>LESSON 23:</b> Launch through Land (Wonder, Organize, Reveal, Distill, Know; Engage, Explore, Explain, Elaborate)</p> <p><b>TEKS:</b> 5.9</p> <p><b>INVESTIGATION:</b> Earth-view student models, location of Polaris</p> <p><b>ASSESSMENT:</b> Check for Understanding</p>	<p><b>LESSON 24:</b> Launch through Land (Wonder, Organize, Reveal, Distill; Engage, Explore, Explain)</p> <p><b>TEKS:</b> 5.9</p> <p><b>ASSESSMENT:</b> Check for Understanding</p>

Week	Day 1	Day 2	Day 3	Day 4	Day 5
27	<p><b>LESSON 25:</b> Launch through Land (Organize, Reveal, Distill, Know; Explore, Explain, Extend)</p> <p><b>TEKS:</b> 5.8C, 5.9</p> <p><b>INVESTIGATION:</b> Earth-view student model, Earth's orbit</p> <p><b>ASSESSMENT:</b> <b>Conceptual Checkpoint</b></p>	<p><b>LESSON 26:</b> Launch through Land (Distill; Explain)</p> <p><b>TEKS:</b> 4.9B, 5.8C, 5.9</p> <p><b>ASSESSMENTS:</b> <b>Socratic Seminar, Check for Understanding</b></p>	<p><b>LESSON 27:</b> Launch through Land (Know; Extend)</p> <p><b>TEKS:</b> 5.8C, 5.9</p> <p><b>ASSESSMENT:</b> <b>End-of-Module Assessment</b></p>	<p><b>LESSON 28:</b> Launch through Land (Know; Extend)</p> <p><b>TEKS:</b> 5.8C, 5.9</p> <p><b>ASSESSMENT:</b> <b>End-of-Module Assessment Debrief</b></p>	N/A

**SPOTLIGHT LESSONS AND A CAPSTONE PROJECT ON FORCES, MOTION, AND ENERGY**

Week	Day 1	Day 2	Day 3	Day 4	Day 5
28	<p><b>LESSON 1:</b> Launch through Land</p> <p><b>ASSESSMENT:</b> <b>Check for Understanding</b></p>	<p><b>LESSON 2:</b> Launch through Land</p> <p><b>INVESTIGATION:</b> Force investigation</p> <p><b>ASSESSMENT:</b> <b>Check for Understanding</b></p>	<p><b>LESSON 3:</b> Launch through Land</p> <p><b>INVESTIGATION:</b> Force investigations</p> <p><b>ASSESSMENT:</b> <b>Check for Understanding</b></p>	<p><b>LESSON 4:</b> Launch through Land</p> <p><b>EXTENSION:</b> Test the train model with different objects.</p> <p><b>INVESTIGATION:</b> Mass investigations</p> <p><b>ASSESSMENT:</b> <b>Check for Understanding</b></p>	<p><b>LESSON 5:</b> Launch through Land</p> <p><b>EXTENSION:</b> Repeat tests with more mass by adding erasers or similar objects.</p> <p><b>INVESTIGATION:</b> Exploring brakes</p> <p><b>ASSESSMENT:</b> <b>Check for Understanding</b></p>

Week	Day 1	Day 2	Day 3	Day 4	Day 5
29	<p><b>LESSON 6:</b> Launch through Land</p> <p><b>EXTENSION:</b> Students combine rail circuit models to determine if the models form a closed circuit.</p> <p><b>INVESTIGATION:</b> Light rail circuit models</p> <p><b>ASSESSMENT:</b> Check for Understanding</p>	<p><b>LESSON 7:</b> Launch through Land</p> <p><b>EXTENSION:</b> Test models with and without an insulator and observe effects on the motor.</p> <p><b>INVESTIGATION:</b> Pantograph materials investigation</p> <p><b>ASSESSMENT:</b> Check for Understanding</p>	<p><b>LESSON 8:</b> Launch through Land</p> <p><b>INVESTIGATION:</b> Device stations</p> <p><b>ASSESSMENT:</b> Check for Understanding</p>	<p><b>LESSON 9:</b> Launch through Land</p> <p><b>EXTENSION:</b> Students construct circuits with a third device connected in series or in parallel and investigate how the devices can be controlled with switches.</p> <p><b>INVESTIGATION:</b> Building circuits investigation</p> <p><b>ASSESSMENT:</b> Check for Understanding</p>	<p><b>LESSON 10:</b> Launch through Land</p> <p><b>ADVANCED PREP:</b> Prepare the train model and train station map model for Lesson 11.</p> <p><b>ASSESSMENT:</b> Check for Understanding</p>
30	<p><b>LESSON 11:</b> Launch through Land</p> <p><b>INVESTIGATION:</b> Rider stations</p> <p><b>ADVANCED PREP:</b> Prepare the Writing Area, Models and Research Area, Materials Area, and Meeting Area to use throughout the Capstone Project (starting Lesson 12).</p> <p><b>ASSESSMENTS:</b> Capstone Project, Check for Understanding</p>	<p><b>LESSON 12:</b> Launch through Land</p> <p><b>ASSESSMENTS:</b> Capstone Project, Check for Understanding</p>	<p><b>LESSON 13:</b> Launch through Land</p> <p><b>ASSESSMENTS:</b> Capstone Project, Check for Understanding</p>	<p><b>LESSON 14:</b> Launch through Land</p> <p><b>ASSESSMENTS:</b> Capstone Project, Check for Understanding</p>	<p><b>LESSON 15:</b> Launch through Land</p> <p><b>ASSESSMENTS:</b> Capstone Project, Check for Understanding</p>
31	<p><b>LESSON 16:</b> Launch through Land</p> <p><b>ASSESSMENT:</b> End-of-Spotlight Assessment</p>	<p><b>LESSON 17:</b> Launch through Land</p> <p><b>ASSESSMENT:</b> End-of-Spotlight Assessment Debrief</p>	<p><b>Benchmark Assessment Prep:</b> Review and reteach for Benchmark Assessment</p>	<p><b>ASSESSMENT:</b> Benchmark Assessment 3</p>	<p><b>ASSESSMENT:</b> Benchmark Assessment 3 Debrief</p>