

## STEM Lesson Guideposts™ Planning Template

W	<p><b>What</b> are the desired results, including big ideas, content standards, knowledge, and skills?</p> <p>List the content standards and what the students will know and be able to do.</p>	<p><b>Why</b> would the students care about this knowledge and these skills?</p> <p>Craft the Driving Question that will lead to the development of the integrated tasks that provide for the application of the content, knowledge, and skills.</p> <p>List the essential questions that can be answered as a result of the learning.</p>	
H	<p><b>How</b> do I plan to meet this goal?</p> <p>Identify the pathway, including major tasks and milestones that result in answering the Driving Question</p>		
E	<p>What <b>Evidence</b> of learning will be used and how will I <b>Evaluate</b> the final product or project?</p> <p><b>Pre-assessment</b> What prior knowledge is needed for this task?</p> <p>Identify the prerequisite skills and understandings</p>	<p><b>Formative</b> How will I measure student progress toward understanding?</p> <p>Establish the assessment tools you will use to monitor progress and inform instruction.</p>	<p><b>Summative</b> What criteria are needed for students to demonstrate understanding of the standards, content, and skills?</p> <p>Create a checklist of criteria for use in a rubric.</p>
R	<p><b>Rigor</b> How can I increase the student's cognitive thinking?</p> <p>Identify tasks that can elevate student thinking, improve inquiry, and increase conceptual understanding.</p>	<p><b>Relevance</b> Does the learning experience provide for relevant and real-world experiences?</p> <p>Identify current topics and local issues that can make the tasks more engaging</p>	
E	<p><b>Excite</b></p> <p>What is the hook to excite the learner?</p> <p>Create the scenario to engage the learner.</p>	<p><b>Engage</b></p> <p>How will the students be cognitively engaged throughout the unit?</p> <p>List the STEM practices that will be used as evidence.</p>	<p><b>Explore</b></p> <p>What activities will help students' address the Driving Question?</p> <p>List questions for students to investigate that will lead them a deeper understanding of the content and skills.</p>