# STEM Lesson Guideposts™ Planning Template

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