5 E Learning Cycle Stages	Examples of Student Activities	Science and Engineering Practices that apply to the 5E phases
<b>Engage</b> Capturing the interest of students and uncovering their initial ideas about scientific phenomena or engineering problems	Demonstration Question to answer Problem to solve mystery	<ul> <li>Asking questions (for science) and defining problems (for engineering)</li> <li>Use models</li> </ul>
<b>Explore</b> The teacher provides students with common, concrete experiences that help them construct concepts and develop skills.	Build models collect data make and test predictions	<ul> <li>Planning and carrying out investigations.</li> <li>Develop and use models</li> <li>Asking questions (for science) and defining problems (for engineering).</li> </ul>
<b>Explain</b> Let the students articulate their ideas in their own words and the teacher helps to clarify their concepts, introduce scientific terminology, and connect student explanations to their in-class "engage" experiences.	Use data/outcomes to develop a written or verbal explanation or solution	<ul> <li>Analyzing and interpreting data.</li> <li>Using mathematics and computational thinking.</li> <li>Constructing explanations (for science) and designing solutions (for engineering).</li> <li>Developing a model</li> </ul>
<b>Elaborate</b> Teachers help students continue to develop concepts and generalize the concepts in a broader context. Learning activities should challenge students to apply, extend, or elaborate upon concepts and skills in a new situation.	Debate New problem to solve Use solution or outcomes to apply to a new situation.	<ul> <li>Engaging in argument from evidence.</li> <li>Asking questions (for science) and defining problems (for engineering).</li> <li>Using mathematics and computational thinking.</li> <li>Obtaining, evaluating, and communicating information.</li> </ul>
<b>Evaluate</b> The teacher assesses understanding of concepts and student proficiency with various skills. The evaluation phase provides an opportunity for students to self reflect.	Presentations Open response questions	<ul> <li>Obtaining, evaluating, and communicating information.</li> <li>Asking questions (for science) and defining problems (for engineering).</li> </ul>