

Bridge Project Schedule	
Day	Tasks and Milestones
1	Lesson #2 <ul style="list-style-type: none"> <li>● Introduce the Engineering Design Process</li> <li>● Introduce the Engineering Notebook</li> <li>● Students complete an online virtual bridge simulator activity</li> </ul>
2	Lesson #3 <ul style="list-style-type: none"> <li>● Introduce the challenge</li> <li>● Divide class into groups of two</li> <li>● Groups identify the problem statement, identify requirements, and conduct background research on bridge types, loads and forces, environmental considerations, and materials</li> </ul>
3	Lesson #4 <ul style="list-style-type: none"> <li>● Groups brainstorm bridge solutions</li> <li>● Final design selection</li> </ul>
4	Lesson #5 <ul style="list-style-type: none"> <li>● Groups create a detailed technical design sketch that includes the geometry, dimensions, forces, and tolerances of their bridge</li> </ul>
5	Lesson #6 <ul style="list-style-type: none"> <li>● Groups will build their prototype for their bridge design</li> <li>● Keep a record of the building process</li> </ul>
6	Lesson #7 <ul style="list-style-type: none"> <li>● Groups will test their bridge</li> <li>● Determine if the bridge meets all of the requirements</li> <li>● Revise and improve design</li> </ul>