

# Assessment Rubric 6: Design Challenge Product/Model

CRITERIA	LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4
Understanding Basic Concepts	<ul style="list-style-type: none"> <li>Reflects limited understanding of the required concepts</li> </ul>	<ul style="list-style-type: none"> <li>Reflects partial understanding of the required concepts</li> </ul>	<ul style="list-style-type: none"> <li>Reflects a complete or nearly complete understanding of the required concepts</li> </ul>	<ul style="list-style-type: none"> <li>Reflects an insightful understanding of the required concepts</li> </ul>
Design and Materials	<ul style="list-style-type: none"> <li>Makes limited use of appropriate materials</li> </ul>	<ul style="list-style-type: none"> <li>Makes adequate use of appropriate materials</li> </ul>	<ul style="list-style-type: none"> <li>Makes effective use of appropriate materials</li> </ul>	<ul style="list-style-type: none"> <li>Makes innovative use of appropriate materials</li> </ul>
	<ul style="list-style-type: none"> <li>Meets design criteria in a limited way</li> </ul>	<ul style="list-style-type: none"> <li>Partially meets design criteria</li> </ul>	<ul style="list-style-type: none"> <li>Meets design criteria</li> </ul>	<ul style="list-style-type: none"> <li>Meets design criteria to exact specifications</li> </ul>
Impact of Model	<ul style="list-style-type: none"> <li>Model does not perform the required function or task</li> </ul>	<ul style="list-style-type: none"> <li>Model performs the required function of task in a limited way</li> </ul>	<ul style="list-style-type: none"> <li>Model performs the required function or tasks within acceptable limits of performance</li> </ul>	<ul style="list-style-type: none"> <li>Model performs the required function or task and exceeds the expected performance</li> </ul>
	<ul style="list-style-type: none"> <li>Model reflects few elements of the original plan</li> </ul>	<ul style="list-style-type: none"> <li>The model reflects some elements of the original plan</li> </ul>	<ul style="list-style-type: none"> <li>The model reflects the original plan</li> </ul>	<ul style="list-style-type: none"> <li>The model reflects improvements to the original plan</li> </ul>
Quality of Explanations	<ul style="list-style-type: none"> <li>Explanations reflect limited understanding of the connection between science and technology concepts and the real world</li> </ul>	<ul style="list-style-type: none"> <li>Explanations reflect some understanding of the connection between science and technology concepts and the real world</li> </ul>	<ul style="list-style-type: none"> <li>Explanations reflect a clear understanding of the connection between science and technology concepts and the real world</li> </ul>	<ul style="list-style-type: none"> <li>Explanations reflect insightful understanding of the connection between science and technology concepts and real world</li> </ul>
	<ul style="list-style-type: none"> <li>Explanations are incomplete and contain major misconceptions</li> </ul>	<ul style="list-style-type: none"> <li>Explanations are partially complete but may contain some minor misconceptions</li> </ul>	<ul style="list-style-type: none"> <li>Explanations are complete and accurate but may lack detail</li> </ul>	<ul style="list-style-type: none"> <li>Explanations are thorough and accurate</li> </ul>