

## Lesson 1: Understanding Design Paper Aircraft Activity Rubric

	Exemplary (4)	Proficient (3)	Progressing (2)	Beginner (1)	Points
Critical Thinking	<ul style="list-style-type: none"> <li>Shows advanced critical thinking skills in considering features desired in aircraft.</li> <li>Shows advanced skills in identifying challenges and making changes to address them.</li> </ul>	<ul style="list-style-type: none"> <li>Shows emerging critical thinking skills in considering features desired in aircraft.</li> <li>Shows emerging skills in identifying challenges and making changes to address them.</li> </ul>	<ul style="list-style-type: none"> <li>Shows some development of critical thinking skills in considering features desired in aircraft.</li> <li>Reflects on original design, but is not able to adapt redesign accordingly.</li> </ul>	<ul style="list-style-type: none"> <li>Does not show any critical thinking skills nor any development of those skills.</li> <li>Is not able to reflect on original design to identify challenges.</li> </ul>	____/4
Creative Design	<ul style="list-style-type: none"> <li>Includes a clear drawing of original design.</li> <li>Original design meets all defined criteria.</li> <li>Redesign is significantly different and shows improvement in performance.</li> </ul>	<ul style="list-style-type: none"> <li>Includes a clear drawing of original design.</li> <li>Original design meets some defined criteria.</li> <li>Redesign is different and may or may not show improvement in performance.</li> </ul>	<ul style="list-style-type: none"> <li>Includes a basic drawing of design.</li> <li>Original design meets only one of defined criteria.</li> <li>Redesign shows no real changes and does not show improvement in performance.</li> </ul>	<ul style="list-style-type: none"> <li>Does not include drawing of original design.</li> <li>Does not attempt redesign.</li> </ul>	____/4
Connection to YIP Invention Process	<ul style="list-style-type: none"> <li>Shows advanced skill in connecting the Invention Process to the invention model.</li> <li>Can explain how each step is applied to building the model.</li> </ul>	<ul style="list-style-type: none"> <li>Shows emerging skill in connecting the Invention Process to the invention model.</li> <li>Can explain how steps are applied to building the model.</li> </ul>	<ul style="list-style-type: none"> <li>Shows some skill in connecting the Invention Process to the invention model.</li> <li>Cannot explain how each step is applied to building the model.</li> </ul>	<ul style="list-style-type: none"> <li>Does not show development of skills needed to connect the Invention Process to the invention model.</li> <li>Cannot explain how each step is applied to building the model.</li> </ul>	____/4

