

# Secondary Engineer Fluid Power Challenge

## CHALLENGE RUBRIC

School Name: \_\_\_\_\_ Team Name: \_\_\_\_\_

	Criteria	Points
Portfolio Rubric	Scores from the portfolio <ul style="list-style-type: none"> <li>Each team member has defined roles and has contributed to the portfolio.</li> <li>At least two rough sketches and an isometric sketch of a section of the design.</li> <li>An orthographic drawing showing dimensions and construction notes (hand or computer generated)</li> <li>A bill of materials for each element of the design.</li> <li>Description of the principals of structures and how this has influenced the design.</li> <li>Explanation of the operation and placement of fluid power systems to include the maths and science.</li> <li>Overall product evaluation and possible modifications.</li> </ul>	0-5
Includes		0-5
		0-5
		0-5
		0-5
<b>Total</b> <b>35</b>		0-5
Teamwork	<ul style="list-style-type: none"> <li>Members can work independently and cooperatively in the design and build.</li> <li>Team members demonstrate safe working practices.</li> </ul>	0-5
<b>Total</b> <b>10</b>		0-5
Interview Questions	<ul style="list-style-type: none"> <li>What alternative designs did you consider?</li> <li>Why did you select this design?</li> <li>What other materials did you consider?</li> <li>How did you decide on the team roles?</li> </ul>	0-5
		0-5
		0-5
<b>Total</b> <b>10</b>		0-5
Construction	<ul style="list-style-type: none"> <li>The system is well constructed with all parts securely built and attached.</li> <li>The actions of the design are smooth.</li> <li>The team work well as a team during the practical challenge.</li> </ul>	0-5
		0-5
<b>Total</b> <b>15</b>		0-5

TOTAL \_\_\_\_\_/100