

Local Challenge Rubric (short version)

	Criteria	Points
Portfolio Rubric Total possible points: 50	Quality of portfolio's presentation including title and index pages	0-5
	• A detailed outline of each team member's participation in the production of the portfolio and planned production of the device	0-5
	• At least three illustrations of the initial design concepts of a possible device	0-5
	• List of materials used to build a prototype from the Workshop Kit	0-5
	• Description of the use of principles of structural strength and stability	0-5
	• Rationale used do decide on the type of fluid power used and where to place the piston-syringes	0-5
	• An isometric drawing of the portion of the prototype used to grab the object	0-5
	• An orthographic drawing showing dimensions and construction notes	0-5
	• A list of alternative materials that would have been useful with reasons why they would have been so	0-5
	• Evaluation of a prototype including conclusions from making it	0-5
Teamwork & Work Habits	• Members of the team work independently and co-operatively in an organized way	0-5
Total possible points: 10	• Members of the team demonstrate safe working practices	0-5
Device Design, Construction & Operation	• The device uses materials effectively and is well constructed with parts securely attached	0-5
Total possible points: 10 + placement points	• The device itself operates efficiently and is operated in an organized way	0-5
	• Object placement points accumulated in designated time period	
Interview Questions	• See detailed <i>Challenge Rubric</i> for wording of questions	0-20
Total possible points: 20		

