



Teams' Challenge Rubric & AI Use

SAFETY IS OUR NUMBER ONE CONCERN

	Criteria	Points
Portfolio <u>Rubric</u> Contents to include: Total possible points: 50	- Quality of portfolio presentation including title and index pages - Detailed outline of each team member's role in the production of the portfolio and planned production of the prototype - At least 3 illustrations of initial design machine design concepts - Isometric drawing of the grabber portion of the machine - Orthographic drawings showing dimensions and construction notes - Materials (with dimensions) used to build prototype from the Workshop Kit - Describe how the team used the principles of structural strength and stability in the machine design - Rationale used to decide on the type of fluid power used and where to place the piston syringes - List of alternative materials that would have been useful and explain why each would have helped - Evaluation of your prototype machine, including conclusions from the build process	0-5 0-5 0-5 0-5 0-5 0-5 0-5 0-5 0-5 0-5
Work <u>Habits</u> Total possible points: 10	- Members of the group work independently and cooperatively and in an organized way - Members of the group demonstrate safe working practices	0-5 0-5
Device Design and Operation Total possible points: 10	- The device uses materials effectively and is well constructed with parts securely attached - The device itself operates efficiently and is operated in an organized way	0-5 0-5
Interview <u>Questions</u> Total possible points: 20	A. What alternative designs did you look at before selecting the design you are building today? B. Why did you select this design to use for the Challenge? C. What did you find most difficult with the project overall? D. How did the team determine who would be responsible for each part of the project? E. Did your team use AI? If so, what prompts were used and how did they inform the decisions made for your machine and the portfolio?	0-5 0-5 0-5 0-5 None
Challenge Board	Number of points scored by moving objects successfully in 2 minutes	Points earned