

Student Rubric: Water Wheel Challenge



Criteria	4 – Exceeds Expectations	3 – Meets Expectations	2 – Approaching	1 – Needs Support
Design Planning	Clear, detailed sketch with thoughtful material choices and workflow	Sketch and plan show basic understanding	Sketch incomplete or lacks clarity	No sketch or plan submitted
Collaboration	All voices heard, strong teamwork and shared decision-making	Group worked together with some collaboration	Uneven participation or communication	Group struggled to work together
Engineering Iteration	Tested multiple designs, made improvements based on data	Made at least 2 tests with one revision or improvement	Minimal changes or testing	No iteration or testing evident
Data Collection	Accurate measurements, correct units, and clear records of lift height for multiple tests	Basic data recorded with some accuracy	Incomplete or inconsistent data	No data collected or recorded
Reflection & Communication	Insightful reflection with clear explanation of learning and design choices	Reflection shows understanding of process	Reflection lacks depth or clarity	No reflection submitted