

Sample Elementary Product Rubric

This rubric can be found in the *Assessing Projects* library.

	4	3	2	1
Innovative Design	<p>My ideas for the design are complex, detailed and show imagination and creativity.</p> <p>My ideas include numerous alternate concepts and solutions.</p>	<p>My ideas are simple and show some imagination and creativity.</p> <p>My ideas include a few concepts and solutions.</p>	<p>My ideas are limited and show repetition of single ideas.</p> <p>My ideas include few concepts and solutions.</p>	<p>I can't come up with ideas without help.</p> <p>I can't think of alternate concepts or solutions without help.</p>
Content	<p>I explain the simple machines used in my design and provide detailed background information about how they work.</p> <p>I thoroughly explain the energies used in my design with accurate and detailed illustrations, diagrams, and words.</p>	<p>I explain how the simple machines work in my design.</p> <p>I explain the energies used in my design.</p>	<p>I try to explain how the simple machines work in my design, but there are some inaccuracies.</p> <p>I try to explain the energies used in my design, but there are some inaccuracies.</p>	<p>I do not explain how the simple machines work in my design, or my explanations are inaccurate.</p> <p>I do not explain the energies used in my design, or my explanations are inaccurate.</p>
Design Process	<p>I identify, control, and evaluate all of the variables that influence the stability, strength, and power of my catapult.</p> <p>I clearly identify the problems that occur and seek innovative and creative solutions.</p> <p>I keep detailed, accurate logs of my research and</p>	<p>I identify, control, and evaluate most of the variables that influence the stability, strength, and power of my catapult.</p> <p>I clearly identify the problems that occur and seek appropriate solutions.</p>	<p>I identify, control, and evaluate some of the variables that influence the stability, strength, and power of my catapult.</p> <p>I identify problems that occur and seek solutions that often don't</p>	<p>I don't identify, control, or evaluate the variables that influence the stability, strength, and power of my catapult.</p> <p>I totally redesign rather than find solutions to specific</p>

	<p>testing. I make predictions before each test. I include an accurate critique of the data and make new predictions based on the evidence. The reader can see how I made informed modifications after each test.</p>	<p>I keep accurate logs of my research and testing. I make predictions before each test and use my data to help inform my modifications.</p>	<p>work.</p> <p>I keep inconsistent logs of my research and testing. Sometimes I predict and use my data to make informed modifications to my design.</p>	<p>problems.</p> <p>I keep poor logs of my research and testing. There is no evidence of making any modifications based on my data.</p>
Structural Design	<p>My construction is well thought-out, creative, and goes beyond expectations. My catapult works with ease.</p>	<p>My construction is sturdy and well-built. My catapult works.</p>	<p>My construction is sloppy and my catapult falls apart on many trials or it does not catapult the object.</p>	<p>My construction of a catapult does not work at all.</p>
Write-up	<p>My write-up includes explanations of the whole design process, initial sketches and notes, list of materials needed, graphs of trials and data log, and final scale design drawing with dimensions.</p> <p>The rationale for my design choice is clear.</p> <p>My scale design drawing is accurate and labeled.</p> <p>My graphed data is complete and accurately reflects the data.</p> <p>The reader can understand and</p>	<p>I have all the pieces present, but not all of the details.</p> <p>I have included the rationale for my design choice, but it may be unclear.</p> <p>My scale design drawing may be somewhat unclear or under-labeled.</p> <p>My graphed data shows most of the data I collected and it accurately reflects the data.</p> <p>Some features of my design</p>	<p>I have some omissions of required items.</p> <p>I have little explanation of the rationale for my design.</p> <p>My scale design drawing is of poor quality: it may not be to scale or I might not have included dimensions or major pieces are missing.</p> <p>My graphed data inaccurately displays the data I collected.</p> <p>My explanation and drawings do not allow</p>	<p>I have left out most of the required items or they are of very poor quality.</p> <p>I have not provided a logical rationale for my design.</p> <p>My design drawing is just a simple illustration without regard to helping the reader rebuild my catapult.</p> <p>I don't include graphed data or it inaccurately displays data I collected or it is made up data.</p>

	rebuild my catapult exactly as I designed it when looking at my drawings and reading my explanation.	are not clearly explained or illustrated, though the reader can usually infer what has been left out.	the reader to understand or reproduce my design without asking questions.	The reader has no clue at all what my catapult looks like or how it's supposed to work.
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