

Rubric for Hydraulic Arm

Student Name _____

Category	4	3	2	1
Research	Accurate information has been taken from several sources in a systematic manner. The handout was completed and questions were answered thoroughly.	Accurate information taken from a couple of sources in a systematic manner. Activities were completed and handout questions were answered.	Accurate information taken from a couple of sources but not systematically. Activities were incomplete and questions were not answered thoroughly.	Information taken from only one source and/or information not accurate. Activities were not completed.
Imagine, Plan & Improve	Student had a detailed design plan that included at least one drawing with labeled parts. Student performed at least two sets of tests and altered their design based on the tests.	Student had a design plan that included at least one drawing and a written description. Student tested the chair and altered their design based on the tests.	Student had a rough design plan. Student tested, but did not make changes based on the tests.	Student did not have a design plan. Student did not test.
Create	Great care taken in construction process so that the structure follows plans accurately.	Construction was careful and accurately followed the plans.	Construction was careful and somewhat followed the plans.	Construction appears careless or haphazard. Many details need refinement for a strong product.
Share	Written:	Written:	Written:	Written:

<p>Sharing can be written and/or oral.</p>	<p>Several entries made and all are dated and neatly entered</p> <p>Oral: Student was able to describe several of the arm's features and/or their design process.</p>	<p>Several entries are made and most of the entries are dated and neatly entered.</p> <p>Oral: Student was able to describe several of the arm's features and/or their design process.</p>	<p>Several entries are made and most of the entries are dated and legible.</p> <p>Oral: Student was able to describe one feature of their hydraulic arm or their design process.</p>	<p>Few entries are made AND/OR many entries are not dated or very difficult to read.</p> <p>Oral: No oral sharing was done.</p>
<p>Mechanism meets Challenge</p>	<p>The hydraulic arm lifts the can and places it in the "finish" circle.</p>	<p>The hydraulic arm can lift the can over the wall and place it on the other side.</p>	<p>The hydraulic arm can grab and lift the can, but it does not lift the can over the wall.</p>	<p>The hydraulic arm cannot grab the can.</p>