

Assessment Rubric - Engineering Activity Checklist

Student Name:

Project:

Element	Criteria
Problem	<ul style="list-style-type: none"> Problem is stated clearly in the student's own words Criteria and constraints are identified.
Research	<ul style="list-style-type: none"> Three facts are identified from research that will assist in design. Student explains how those facts would assist in their planning/construction
Brainstorm	<ul style="list-style-type: none"> Three or more unique ideas are made. Each plan has a simple explanation on how it works.
Plan	<p>Detailed sketch is made of a solution including...</p> <ul style="list-style-type: none"> At least two different viewing angles (front, side, top, bottom). Key parts are labeled and explained. Rough estimate of materials and amount Explanation of how the solution works (3-4 sentences).
Construction	<ul style="list-style-type: none"> Building log has daily pictures of project as well as goals for each building day. Materials are handled with care and respect. Everyone equally contributed to the design and all ideas were respected. Rules and guidelines set by the teacher are followed.
Test/Redesign	<ul style="list-style-type: none"> Tests following the criteria and constraints are conducted. Students are able to identify successes and problems from each test. Students address problems and improve design before the next test. If students feel that they have been successful and no further testing is needed, they can clearly explain why they were successful.
Communicate	<p>Each section of the student's building journal is complete, including answers to the following questions.</p> <ul style="list-style-type: none"> Do you think you were successful in this challenge? Why or why not? If you were to do this challenge again , explain what you would do differently. What advice would you give students that were going to attempt this project next time?
Notes/Feedback	

Overall Grade			
Standard	Developing/Not Yet	Progressing	Meeting
Engineering Design Process	Less than 11 of the criteria were met/Journal was not turned in.	12-18 of criteria were met	19-All of the criteria were met.

