

Design, Construction and Fiscal Management Rubric

Collaboration (step 1)	Tower qualities (step 2)	Fiscal consideration (step 3)
<p>Superior collaboration</p> <p>Team communicates effectively, solves problems, discusses options and possibilities, addresses different opinions articulated by peers, and resolves differences through discussion.</p>	<p>Tower strength is measured using incremental weights, wind, and rain testing. Through the teacher's testing in front of the classroom, tower strength is determined. A tower that holds the maximum weight dry, does not move when blown with a hair dryer at various angles, and holds the maximum weight wet is rated an A with regard to the tower quality. An A+ rating is achieved if a company includes a railing and a ladder with its tower. If there were no collaboration problems (i.e., superior rating), then there are no deductions from the A or A+ tower quality rating. (Acceptable rating on collaboration drops tower quality to B+ or B).</p> <p>Towers that receive A or A+ ratings move on to Step 3 and are assessed based on the fiscal considerations rubric section if only one company in the classroom receives the A or A+ rating. Usually, however, multiple groups (companies) receive an A or better rating.</p>	<p>Least expensive and safest (based on Step 2) tower is rated superior overall and the company is strongly encouraged to submit a bid for the new football stadium being planned. The A or A+ rating is maintained.</p>
<p>Acceptable collaboration</p> <p>Team communicates and solve some problems, discusses options and possibilities, and addresses different opinions articulated by peers, but does not fully resolve differences through discussion.</p>	<p>Tower quality testing fails one test. For example, it does not hold maximum weight dry (needs to hold at least half of incremental weights). Grade drops to a B+ in tower quality if collaboration is superior, drops to a B rating if collaboration is acceptable, and drops to a B- rating if collaboration is unacceptable</p>	<p>Towers that do not go over bid budget maintain current A and A+ grade (usually only A and A+ towers are considered in the fiscal considerations rubric) and are considered acceptable towers, but possibly too expensive for future bid considerations.</p>
<p>Unacceptable collaboration</p> <p>Team communicates but does not solve problems to accomplish the goals of the project-one or two students' opinions are included and others' opinions and ideas are excluded.</p>	<p>Tower quality testing that fails two tests automatically drops to a B rating if collaboration is superior, drops to a B- rating if collaboration is acceptable, and drops to a C+ rating if collaboration is unacceptable.</p>	<p>Companies that go over on bids drop in rating by a full letter (A or A+ towers are dropped to B or B+)</p>