**Engineers are problem solvers**

**Rubric**

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| **Criteria** | **Beginning** | **Achieved** | **Exceeded** |
| *Brainstorming*  | Identified a single solution to the problem.  | Identified several solutions to the problem.  | Identified several solutions to the problem that approached the problem in quite different ways.  |
| *Prototyping*  | Built a prototype.  | Built a prototype that showed some similarities to the planned solution.  | Built a prototype that used the core principles of the planned solution.  |
| *Testing* | Measured the height of the tower.  | Selected units of measurement to obtain an accurate height.  | Selected units of measurement to obtain an accurate height and considered fairness and repeatability when measuring.  |
| *Iterating* | Built another prototype.  | Demonstrated reflection and consideration before and between development of further iterations.  | Demonstrated careful evaluation of the first prototype and actioned areas for improvement in development of further iterations.  |
| *Group work*  | Participated in the group discussion and activity.  | Participated in discussion and was hands-on in each phase of the engineering design cycle.  | Participated and supported others’ participation in discussion and hands-on aspects of each phase of the engineering design cycle. |