**Checklist for Engineering Design Project: Come Rain or Shine**

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| --- | --- | --- | --- | --- |
| **Grade** | | | | |
| **Did I Do It Like an Engineer?** | | | | |
| *Did I Meet the Project Goals/Criteria?* | | Not  Yet | Starting  to | Yes! |
|  | I caught as much of the rainwater/snowmelt  (1 cup) that fell on the roof as I could. | |  | | --- | |  | | |  | | --- | |  | | |  | | --- | |  | |
|  | I created a roof with no leaks. The inside of the building remained dry. | |  | | --- | |  | | |  | | --- | |  | | |  | | --- | |  | |
|  | I maximized the square footage inside the living space. In other words, I made as much space available inside my of building as possible and my building fits inside the tub. | |  | | --- | |  | | |  | | --- | |  | | |  | | --- | |  | |
| *Did I Use Science and Engineering Practices?* | | Not  Yet | Starting  to | Yes! |
|  | I asked thoughtful questions and defined more than one problem. | |  | | --- | |  | | |  | | --- | |  | | |  | | --- | |  | |
|  | I developed and used models that met all of the criteria. | |  | | --- | |  | | |  | | --- | |  | | |  | | --- | |  | |
|  | I planned the design carefully and carried out the construction in the time given. | |  | | --- | |  | | |  | | --- | |  | | |  | | --- | |  | |
| *How did I work with my group members?* | | Not  Yet | Starting  to | Yes! |
|  | I listened carefully to others’ ideas, asking their opinions. I took turns and made sure everyone was sharing. | |  | | --- | |  | | |  | | --- | |  | | |  | | --- | |  | |
|  | I told others my ideas and I made sure I didn’t do all the talking. | |  | | --- | |  | | |  | | --- | |  | | |  | | --- | |  | |
|  | I helped solve problems that came up in our group and was willing to compromise when things didn’t go my way. | |  | | --- | |  | | |  | | --- | |  | | |  | | --- | |  | |

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| **Grade** |
| Time to think about what I learned. |
| How did you use the exploration with materials to help you make your design? Think about the properties of the materials you used. |
| What would you do differently next time? How would you make your design even better? |
| What questions do you have about the process of planning, designing, testing, and redesigning? |
| What did you learn about being a design engineer? |