# Decision Matrix Worksheet

**Name:** _____

Fill in your design requirements and the names for your possible solutions. Then use a numeric evaluation scale to rate each solution against each of the requirements and criteria (2 = totally meets the requirements, 1 = somewhat meets the requirements, 0 = does not meet the requirements). Total up the columns to see which solution is best.

| **Design Requirements and Criteria** | **Solution #1:** _____ | **Solution #2:** _____ | **Solution #3:** _____ | **Solution #4:** _____ |
|---|---|---|---|---|
| **Your requirement #1:** _____ | | | | |
| **Your requirement #2:** _____ | | | | |
| **Your requirement #3:** _____ | | | | |
| **Your requirement #4:** _____ | | | | |
| **Other criteria:**<br>Lump together a single rating for your own "nice-to-have," desirable criteria and universal design criteria, such as:<br>**Elegance**<br>Is the solution simple, clever, or ingenious?<br>**Robustness**<br>Is the solution sturdy, resilient, and unlikely to fail?<br>**Aesthetics**<br>Is the solution tasteful and pleasing to look at?<br>**Cost&Resources**<br>Do you have or can you get the materials you need?<br>**Time**<br>Do have time to make the solution and debug it?<br>**SkillRequired**<br>Do you have the skills to make the solution?<br>**Safety**<br>Is the solution safe to build, use, store, and dispose of? | | | | |
| **Total Points** | | | | |