# Towers

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| **Description** | Teams design and build the most efficient tower. |
| **Time Limit** | 10 minutes to test |
| **Team Size** | 2 students |
| **Details** | ➢ Each team may only enter one tower.<br>➢ The tower must support a loading block at a minimum of 50 cm above the test base.<br>➢ The tower must span the square opening in the test base.<br>➢ A chain or string must be able to pass through the center of the tower.<br>➢ The loading block will be attached to a chain which will have a bucket at the bottom, below the test base. Teams will add sand to the bucket to see how much weight their tower can support.<br>➢ The tower may not be braced against or lean on any object or surface.<br>➢ The tower may not extend below the level of the test base.<br>➢ The tower must be a single structure with no separate or detachable pieces.<br>➢ The tower must be constructed of wood and bonded together with glue. (any commercially available glue is allowed)<br>➢ Wood may be laminated by the teams, but may not be commercially laminated. Also, particle board, wood composites, bamboo and paper are not allowed. |
| **Competition Scoring** | ➢ Towers will be scored and ranked according to the mass of the load it can hold without failing.<br>➢ Scores will be based on ranking within the tiers below.<br>➢ Tier 1: Towers meeting all construction parameters (54 -60 points)<br>Tier 2: Towers not meeting construction parameters (49-53 points)<br>Tier 3: Towers unable to be tested. (48 or fewer points) |
| **Notebook Requirements** | ➢ Towers Design Notebook: 20 Points |
| **Timeline** | Planning: Monday, May 2nd<br>Building: Tuesday, May 3rd – Tuesday, May 10th<br>Testing: Wednesday, May 11th |

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