

# Station 4--Engineering Challenge

<b>Materials:</b>			
<b>100--1" Wooden Blocks</b>	<b>50--Wooden Craft Sticks</b>	<b>50--Small Paper Cups</b>	<b>1--Yardstick</b>
			

## Challenges:

- 1. STABILITY--Build a structure with a ONE CUBE base that is a minimum of 18 inches tall.**
- 2. HEIGHT--Build a the tallest structure you can (with any kind of base.) See if you can make it taller than your yardstick.**
- 3. BALANCE--Build a structure with some kind of protrusion that defies gravity.**
- 4. MATERIALS--Build anything and use every single material you have been given.**
- 5. SYMMETRY--Build a structure that demonstrates some type of symmetry/pattern in its construction.**
- 6. 3-DIMENSIONAL--Build a 3-D structure with 6 sides (think of a cube) and use all three building materials in some way.**
- 7. SUPPORT--Build a structure that can hold a library book and has only ONE CUP for a base. Extra Challenge: See how many books it will actually hold.**
- 8. INCLINE--Build something that mimics a set of stairs. Use all three building materials.**

**\*When finished, count your materials and return them to your box.\***