

Float Your Boat

Challenge: Your TASK is to build a structure that will float, keep a red and white bobber dry, and hold weight.

Time: You will have up to 7 minutes to use your IMAGINATION to build your structure and up to 1 minute to place weights for score.

Setup: There is tub filled with water and there is a table with materials.

Procedure: Using only the materials provided, you are to make a structure that will float and hold weight.

- Part 1 (7 minutes): You are to build your structure including the red and white bobber and place it in the water. You must have your structure floating in the water when time ends in Part 1 in order to receive score for the height of the bobber.

The appraiser will measure the height of the bobber above the surface of the water after the 7 minutes or when requested before then. Teams may not touch their structure after it has been measured.

- Part 2 (1 minute): Without touching your structure, you may then add weights for score. Time will end if the structure becomes supported by the bottom or sides of the tub or if the bobber becomes wet.

Materials:

4 foam cups	4 coffee stirrers
4 mailing labels	4 index cards
4 paper clips	
4 straws	Red and white bobber (may NOT be damaged)
4 rubber bands	Weights for score (may NOT be damaged)

Scoring: You will receive:

- A. 10 points if your structure is floating and includes the red and white bobber at the end of Part 1.
- B. 5 points for each full inch the red and white bobber is above the water.
- C. 2 points for each weight added.
- D. Up to 20 points for how creatively you use the materials.
- E. Up to 20 points for how well your team works together.