

Task

Build a structure for an uncovered cup. When the cup is placed onto the device and dropped from a height of ~4.5m, it should retain as much water as possible.

Everyone starts with the following

- 1 paper cup – the cup itself cannot be modified in any way
- 5 straws
- 1 roll of masking tape
- 1 small trash bag
- 1 pair of scissors
- 10 pipe cleaners
- 5 coffee stirrers
- 10 lollipop sticks
- 2 meters of string
- 5 rubber bands
- 5 sheets of A4 paper

Purchasable materials

You can acquire additional materials by correctly answering the maths questions provided. Each correct answer provides you with one 'set'. You can collect up to 5 sets.

- 1 straw
- 1 pipe cleaner
- 1 coffee stirrer
- 1 lollipop stick
- 1 rubber band

Reminders

You cannot enclose your cup in any way– the cup must be easily removable from the contraption and there must be at least 10 cm of air above the rim of the cup.