## **PAPER THROW**

**Type of Competition:** Team

**Composition of Team:** Team (1 or 2 persons per team)

**Overview:** Design and build a “complicated” device from the available supplies to launch a crumbled half-sheet of 8 ½ x 11 paper the farthest distance.

**Materials:**

(per group)

1 – crumbled half-sheet of paper

1 – plastic water bottle or soda can

1 – piece of string (24 in), any type

2 – marbles or equivalent

2 – plastic spoons

2 – standard paper sized (8 ½ X 11 in) pieces of foam board OR recycled cardboard

5 – straws

5 small paper clips

5 large paper clips

10 – craft sticks

10 – rubber bands

The following general classroom supplies may be used: Scissors, box cutters or other cutting tools, Masking tape, Glue guns

**Constraints:**

1. Only the available supplies may be used.
2. Device must have at least two different sequential and dependent actions. The action to initiate the device may count as one of the at least two actions.
3. Device must use two different types of energy (e.g. gravity, elastic, etc.)
4. Team may not assist in the tossing of the paper in any way (device must launch it on its own).
5. Teams may hold down device OR attach it to the table/desk/etc. if necessary.
6. Teams should use as many of the supplies as possible when building the device.

**Metrics:**

Ability to toss the crumbled paper the farthest. The use of supplies (using as many as possible) may also be used as a metric. Supply “use” can be measured by counting how many items are left over (from the build) from those given. A ratio can then be used (distance/supplies left over) to assess device performance.