

## Elastic Energy Car Derby

Race length will be 3 meters on a carpeted surface. The car which crosses the finish line first wins. If neither car crosses the line, the car which traveled furthest in a straight line wins.

### Rules:

1. The length of the car cannot exceed 10 inches and the width cannot exceed 8 inches.
2. The car must be self-propelled by a rubber band or balloon. You may not use a 'sling shot' design and you may not influence the car after it starts.
3. You may only use approved items to build your car.
4. A maximum of three people may work together on a single car.
5. The car must stay in one piece for the entirety of the race.
6. At least one wheel of the car must be in contact with the ground at all times during the race.

### List of Approved Materials:

Tape, Glue, Paper Towel Rolls, Paper, Cardboard, Plastic/Paper/Styrofoam Cups, Craft or Popsicle Sticks, Rubber band or Balloon, Straw, Bamboo Skewers, Chop Stick, Bottle Caps, Paperclips, Toothpicks

### Rubric

1. Car was built using approved materials.	0	.5	1
2. Car was self-propelled.	0	.5	1
3. Car was visually appealing.	0	.5	1
4. Car design accounted for physical laws.	0	.5	1
5. Car design was of high quality.	0	.5	1

Bonus Points: \_\_\_\_\_

Reflection: \_\_\_\_\_

Total Points: \_\_\_\_\_

