

Engineering Activities

Try It Out

ZOOMon: Change One Variable

Share Your Results

Keep ZOOMing

Egg Bungee Jump



Invent a bungee jump for an egg.

- Length of nylon
- Type of nylon
- Weight of egg

- What design did you use?
- What made your design work?
- If you had an “eggspllosion,” why?

Keep experimenting with technological design:

- Financial Support
- Straw Bridge

Flinker*



Design an object that doesn't float or sink—it “flinks.”

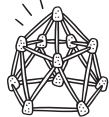
- Type of liquid
- Type of object

- How long did your object flink?
- What made your object neither float nor sink? Why?
- How can you make it flink longer?

Experiment further with buoyancy:

- Dancing Raisins
- Pour Water in Air

Gumdrop Dome*



Build a geodesic dome with toothpicks and gumdrops.

- Number of toothpicks in the base
- Shape of sides (square or triangular)

- How many triangles are in your dome?
- Compare a dome with square sides and a dome with triangular sides. Which is more stable?

Make a large dome from newspaper:

- Geodesic Dome

Hoop Glider



Create a glider that travels the longest distance possible.

- Type of paper
- How you design your glider

- How far did your hoop glider travel?
- How can you make it travel farther?

Make more things that fly:

- Delta Wing Flyer
- Glider

* indicates Spanish version available

Find these activities at the **ZOOMsci** section of the ZOOM Web site: pbskids.org/zoom/sci