

# BUILD IT YOURSELF

## Egg Bungee Drop

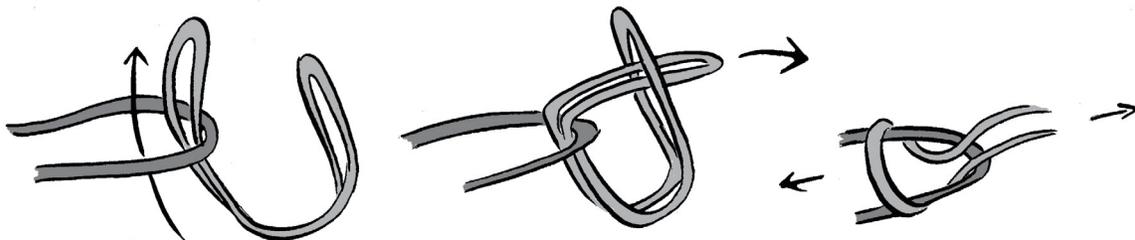
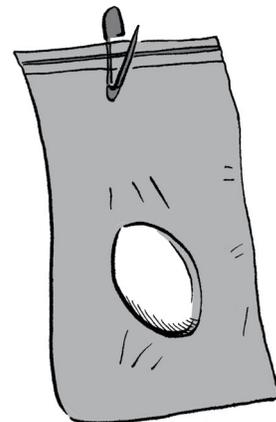
**SUPPLIES:** ziplock sandwich bag, paper puncher, large raw egg, large safety pin, 10 standard-sized rubber bands, scissors, old pair of tights or pantyhose, sticky note, marker, tape measure, footstool

Zip your egg in a clear pouch and see if it can survive a wild ride. If it can't, use trial-and-error to make adjustments—and try, try again! **HINT:** You can substitute a hard-boiled egg to cut down on mess. Speaking of mess, the ziplock bag could burst, so you might want to conduct your experiment over a tarp or outside.

1 The ziplock sandwich bag is a harness for your egg. Punch a hole at the top of the bag. Open the ziplock and slip the egg inside. Then, open the safety pin, hook it through the hole, and close the pin with the top of the pin protruding from the bag. Carefully set the pouch aside for now.

2 Link the rubber bands to make a chain for the bungee cord. To start, weave one band inside of another and pull tightly to connect them. (Don't pull too tightly, though, or you'll snap them!) Add the rest of the rubber bands.

3 Open the safety pin and carefully attach one end of the rubber band chain to it. Close the pin. Cut off one leg from the tights or pantyhose. Securely tie it to the end of the rubber band chain.



## ACTIVITY!

4 Make an X on the sticky note with the marker. Use the tape measure to measure 40 inches up from the floor (about 100 centimeters). Attach the sticky note on the wall to mark the height you measured.

5 If you need to reach the marked height with a footstool, have an adult spot you while you step up. Hold the end of the tights or pantyhose, and drop the bungee from the marked height. See if your egg springs back without smashing.

6 If the egg doesn't survive, try the experiment again. What adjustments do you think you need to make to keep the egg intact? What do you predict would happen if you substituted a different elastic material for the tights?



### Notable Quotable

“If we knew what we were doing, it wouldn't be called research, would it?”

—*Albert Einstein, Noble-Prize-winning physicist  
who developed the theory of relativity*