Gravity Bucket Lab Teacher’s Guide

# Materials

Gather one set of the following supplies for each lab group:

* 3.5- or 5-gallon buckets
* Nylon fabric
* Bungee cords
* Marble
* Scale
* Steel ball
* Cue ball
* Wood ball
* Baseball or any other ball you have available

# Make the Gravity Bucket

1. Stretch the fabric over the open end of the bucket.
2. Use the bungee cord to hold the fabric in place.

 

As you can see in the picture on the left, there is a visual comparison of the amount of dip the two balls experience. The “goal” of stage 1 of this lab is for students to figure out what influences how deep the ball dips. The picture on the right demonstrates what students will try to make happen in stage 2.