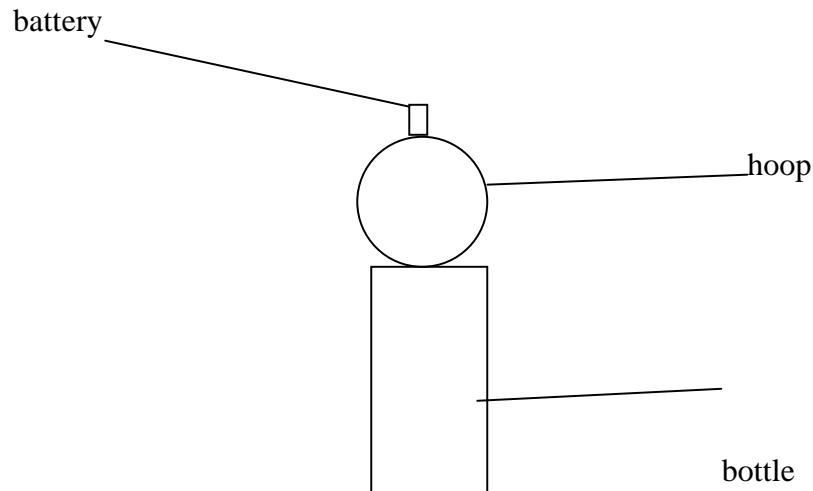


Newton's First Law Lab – Station 1

Battery Drop: Arrange the materials as shown below. Get the battery in the bottle by only touching the hoop.



Newton's First Law Lab - Station 2

Alien Orbit: with one clay blob attached to each end of the coat hanger, balance the center of the hanger on your head so you can see one blob in front of your nose. Now look at the blob behind you. Don't touch hanger/blobs system unless it starts to fall off your head.

Newton's First Law Lab - Station 3

Tablecloth trick: Remove the "tablecloth" from beneath the place setting without disturbing the setting. You may only touch the "tablecloth." Set the table on the "tablecloth" for the next group.

Newton's First Law Lab - Station 4

Cutting Weight: Stand on one of the scales. Record your weight in pounds. Stand with one foot on each scale. Shift your weight back and forth and observe the changes in each scale. Record three different sets of readings from the scales as you shift your weight. What is the total weight between the two scales for each of the three readings?

Newton's First Law Lab - Station 5

Bowling for inertia: Roll the bowling ball, **SLOWLY**, towards the inertially challenged pins. Now slide the pins at the bowling ball. Explain why the pins lose either way.

Newton's First Law Lab - Station 6

Golf ball on a stick: *Pay attention to how the golf ball is attached to the stick so you can put it back together when you are done.* Hold the stick perpendicular to the floor and about 6 inches above the floor. Watch the golf ball as you drop the stick. Explain how the golf ball is like a passenger in a car crash. *Tape the golf ball back to the stick so it is like you found it. Yes, you should use new tape and throw away the old tape.*

Newton's First Law Lab - Station 7

Look out below: Get the "coin" in the cup without touching the coin or the cup. The card may only be moved horizontally so as to "open the cup". You may not tilt the card in any direction.

Newton's First Law Lab

Each group will start at a different station. Read the description/instructions. Sketch the setup of the station. Write out what you did to accomplish the task and explain why it worked in terms of Newton's 1st Law.