

NAME: _____

Motion Lab

SPI 0507.11.1 Explain the relationship that exist among mass, force, and distance traveled.

Cotton Ball Catapult

Materials needed:

- 3 Cotton Balls
- 1 Plastic Spoon
- Measuring Tape or Ruler
- Masking Tape
- 3 Rubber Bands

Hypothesis:

When launching three different cotton balls with different materials, you will record the distance each one traveled from the catapult. Write your hypothesis (prediction) for the experiment.

Experiment:

On a flat surface, use the spoon to launch one plain cotton ball. Measure the distance. Record the distance. _____

Next, wrap 3 rubber bands around one cotton ball and launch it. Measure the distance and record. _____

Then, wrap one cotton ball with masking tape and launch it. Measure the distance and record. _____

Analysis of Results:

Which cotton ball traveled the furthest distance? Why? Was your hypothesis correct?
