



How Far did that Fly?

Inspired by *Measuring Me!* by Nicole Kent

Goal: Measure distances.

You will need:

- Measurement tools which could include a group of identically-sized objects (boxes, cans, paperclips), a ruler, a measuring tape, meter stick, and a yardstick
- Masking tape or chalk
- Lightweight objects which might include a ping pong ball, feather, popcorn, bow, pom pom, cotton ball

What to do:

- Experiment with the objects! Test how the lightweight objects move when they are thrown, blown, or rolled. Move the objects several different ways. Which way moved them farthest?
- Make a starting line on the sidewalk with chalk or tape.
- Predict which of the lightweight objects you can get to move the farthest with a single toss, puff of air, or roll.
- Select three objects and try to get them to move as far as possible from the starting line, each with a single attempt.
- Measure how far the three objects moved. Use a variety of measurement tools.

To think about:

- How could you change the objects to make them move a greater distance?
- Which measuring tool was most convenient to use? Why?