



## Prep Instructions

### Part I - Preparing the Borax Solution

The following items will be required for the prep of this part of the activity:

- hot water
- borax
- measuring cup
- measuring spoons
- paper cup

#### Step 1

Fill the measuring cup with 1 cup of hot water.

#### Step 2

Add 4 tbsp of borax and stir until the borax is completely dissolved. Transfer the solution to a paper cup.

### Part II - Making the Ball Jump

The following items will be required for the prep of this part of the activity:

- 2 metre sticks
- 3 ft. of string
- piece of paper
- tape or stapler
- binder
- desk or table

#### Step 1

Hold the metre sticks so that the zero marks are on the ground. Tie one end of the string to one of the metre sticks 10 cm from the ground. Repeat the process with the other metre stick and the free end of the string.

## Polymer Bouncy Balls - Prep Instructions

### Step 2

Fold a sheet of paper in half and place it over the middle of the string (**Figure 1**). Staple or tape in place.

### Step 3

Place a desk or table at the front of the classroom. Make a ramp by placing a binder at the edge of the desk with the incline sloping toward the edge (**Figure 2**). This ramp will be used to launch the balls and ensures that all balls start off with the same initial velocity and acceleration. The ball jump and the desk should be approximately 2 ft. apart.



Figure 1



Figure 2