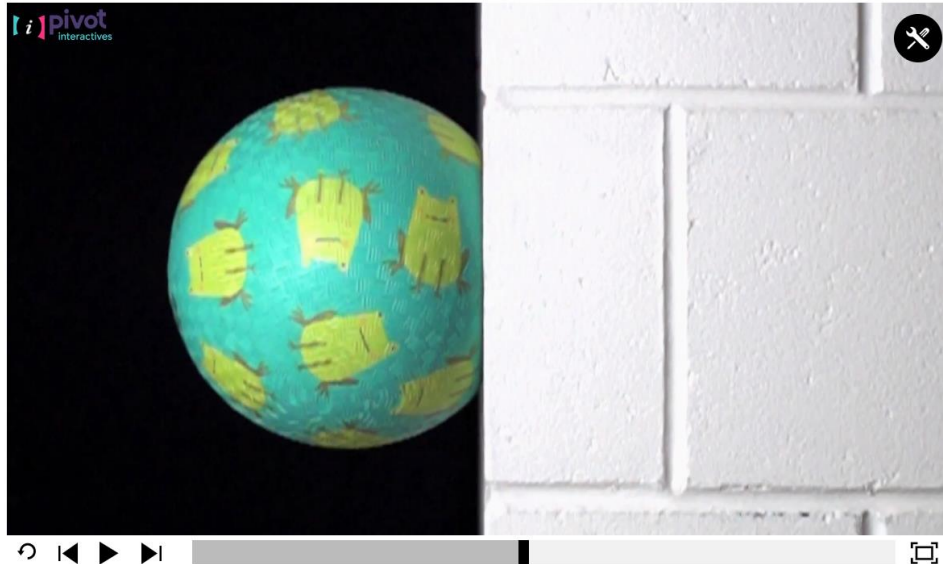


## Pivot Interactives Ball Rebound

**Purpose:** To determine the force between the ball and a wall during a bounce from the wall.

Access the Pivot Interactives lab “Ball Rebound”. If you run the video you will see this:



Open the toolbox and use the stopwatch and ruler to answer these questions:

- 1) How long is the ball in contact with the wall? That is the amount of time that the ball and wall are applying forces on each other.
- 2) What is the initial velocity of the ball? Remember to specify direction.
- 3) What is the final velocity of the ball? Remember to specify direction.
- 4) What is the change in the momentum of the ball? The mass of the ball is shown on the video window.
- 5) What is the average force that the wall applies to the ball? Remember to specify direction?
- 6) What is the average force that the ball applies to the wall? Remember to specify direction.

Open a Word document. Use it to show your measurements and calculations as well as the answers to the above questions. Then submit it via Canvas.