

## Will It Roll?

### Materials:

- Ramps
- Various spherical and cylindrical objects

Gather spherical or cylindrical items from around the classroom. Set out ramps with one end on an elevation material such as blocks, Sandbags, or Criss-Cross Blocks. Place the items in a basket near the highest end of the ramps. Invite the children to test out the various items and observe whether they roll or not.

As they observe similarities between items that roll or do not roll, encourage them to communicate their ideas and predictions.

### Key Vocab

**Roll:** move in a particular direction over and over an center point.

**Sphere:** a round solid figure with every point on its surface equidistant from the center.

**Cylinder:** a shape with parallel sides and a circular or oval cross section.

### Look and Listen for Learning

- Curiosity
- Force and Motion
- Material Properties
- Shapes

### Teaching Tips

- Make this experience into a scavenger hunt and invite children to search the classroom for materials that are spherical or cylindrical, then test them on the ramps.
- This activity would be a wonderful opportunity to explore data collection and graphing. Use a visual graph, such as a bar graph with images or our Math and More Partitioning Tray, to gather information about what item roll down the ramps.

### Questions to pose:

- Do you predict this item will roll all the way down the ramp? Why or why not?
- What other items can we find around our classroom that might roll down the ramps?
- What kind of system can we make to track which items rolled and which didn't?