

# ACCELERATION & MASS

## Materials

1 meter ramp

Meterstick

3 Washers

Wood block

Paper Cup

Marble

## What To Do

1. Make a ramp from the wooden block and the meter stick.
2. Cut a small hole in the paper cup.
3. Put the cup at the end of the meter stick ramp. Face the hole in the cup so that the marble can roll down the ramp and into the cup.
4. Put the marble at the top of the meter stick ramp and let it roll down the ramp and into the cup.
5. Use the second meter stick to measure how far the cup moved. Record your data.
6. Repeat for a total of 35 trials.
7. Tape 1 penny to the top of the cup. Repeat steps 5 - 7.
8. Tape a second penny to the cup. Repeat steps 5 - 7.
9. Tape the third penny to the top of the cup. Repeat steps 5 - 7.

