

ENGINEERING DESIGN PROCESS

Ramp It Up

1. Title of Experiment

2. Hypothesis (How fast can a car or ball go down your ramp?)

3. Draw a Picture of your Design (Draw the set-up of your experiment.)

Ramp It Up

4. Data Collection/Observations (Draw a picture of your completed ramp.)

5. Results (Record your time trials.)

6. Analysis/Answer Questions

Find the average time it took to get your car/ball down the ramp. Add up all 4 of your time trials. Then divide that number by 4. Record this under "Results".

Was your hypothesis correct? Was your average time faster or slower than your hypothesis?

At the top of your ramp, your car/ball has potential energy when it is not moving. When it is moving down the ramp, it has kinetic energy. Where do you think it has the most kinetic energy on your ramp?