



Height and Speed: Student Activity Sheet

Name: _____

Date: _____

Part 1: Effect of Height on Speed - Ramp A

Time the marble rolling over the runway **three** times. Record your results for all three times below.

Ramp A	Trial 1	Trial 2	Trial 3	Average
Time				

What do you think will happen if you raised the ramp higher and released the marble from a higher place?

What would happen to the average time? Explain your reasoning. _____

Part 2: Effect of Height on Speed - Ramp B

Adjust your ramp to **50mm**. How many seconds (*include tenths of seconds*) do you predict it will take for the marble to travel the whole runway? _____ seconds

You will time the marble rollings over the runway **three** times. Record your results for all three times below.

Ramp B	Trial 1	Trial 2	Trial 3	Average
Time				

What do you think will happen if you lowered the ramp and released the marble from a lower place?

Part 3: Effect of Height on Speed - Ramp C

Adjust your ramp to **30mm**. How many seconds (*include tenths of seconds*) do you predict it will take for the marble to travel the whole runway? _____ seconds

You will time the marble rollings over the runway **three** times. Record your results for all three times below.

Ramp C	Trial 1	Trial 2	Trial 3	Average
Time				

Compare your results to your prediction. What did you notice? _____

How does the height of the ramp affect the time it takes for the marble to travel 1 meter? _____