

GPE/KE Marble Investigation Lab Set-Up

- 1) Stack the number of books you are using on the appropriate location (pre-labeled spot) on the table or floor.
- 2) Place the ruler at an angle (making a ramp) from the books. Have the ramp start at 5cm. (There will be slight “overhang” of the ruler over the books).
- 3) From the end of the ruler that is on the table, there is a pre-labeled piece of tape 15cm away.
- 4) Place the lip of the cup on the FRONT edge of the tape (closest edge to the edge of the ruler).
- 5) Fill out the top part of your lab sheet with your group—question and identifying variables.
- 6) Next, have one group member hold the ruler at the top edge of the ruler to make it sturdy. Then take your group’s marble and let go of the marble from the top of the ramp (do not apply any force).
- 7) Measure (in centimeters) the distance the cup travels from where it started.
- 8) Record your data in your table.
- 9) Repeat steps 6-8 until you have reached 5 trials.
- 10) Find the average of your trials (you may use a calculator).
- 11) Return all materials to their proper locations.
- 12) Be ready to share your results with your classmates!