

ACTIVITY #1: Let's Get the Ball Rolling!

MAIN IDEAS: The important concepts and skills covered in this activity are ...

- The higher the release point of the ball on the ramp, the faster the ball will be rolling when it reaches the bottom of the ramp.
- Repeating a measurement several times and then averaging the results will yield a more reliable result than any single measurement.

Question #1: Why will the speed of the ball along the level tabletop be the same as the speed of the ball at the bottom of the ramp?

Question #2: Give a reason why the average time, calculated from 5 separate measurements, is more reliable than any single measurement of the time.

Question #4: Why do you think the speed of the ball depends upon its release height?

Question #3: What effect did increasing the release height have on the speed of the ball?