

Eli built a Pythagoras Switch with two ramps. Tell what motion you would see at each step of the machine. To help you think about why, decide what force or forces are acting on each object.

Motion – is the marble

- Not moving
- Moving
- Moving faster and faster
- Slowing down

Forces that might act on a marble

- Gravity
- Friction
- An object pushing against the marble
- Another moving object



1. Before Eli lets go of Marble 1, what is it doing? Why?

2. What will Marble 1 do when Eli pushes it? Why?

3. What will you see when Marble 1 hits the block? Why?

4. What do you think will happen to Marble 2? Why?

Write About Your Experience

On another sheet of paper, describe your experience building the Pythagoras Switch. What was easy? What was hard? What did you find most frustrating? What was your most satisfying moment? Whose machine surprised or impressed you?