Phabulous Physics Vocabulary:

Gravity – The force exerted by the mass of Earth, pulling everything downwards towards itself

Inertia – The tendency for a body to keep doing what it’s doing (rest or movement)

Momentum – Inertia in motion

Acceleration – A change in speed or direction

Newton’s First Law: A body at rest stays at rest; a body in motion stays in motion

Newton’s Second Law: When acted on by an outside force, a body experiences acceleration .

Newton’s Third Law: For every action there is an equal and opposite reaction.

TEAM MEMBERS:

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Phabulous Physics: Rollercoaster Rules … *suggested practice activity*

1. The starting height will be 120 cm from the ground.
2. The track will consist of 4 pieces of pipe insulation. These may not be cut. All must be used.
3. Masking tape may be used.
4. Each track may include one or two short tunnels.
5. The marble/coaster must be released at the tape marking the top end of the track. By converting its potential energy into kinetic energy, the marble will travel the track and stop at the end. \*\*\* The goal is for the marble/coaster to stop as close to the end as possible without exiting the track.
6. Including a loop is an optional extension after other parts of this system have been successfully assembled. Adding the loop will, of course, change the system.