

Team Materials: foam tubes, tape, cup, marble, worksheet

Energy = Ability to do Work

Work = Using a Force to Move an Object

Force = a push or pull

Kinetic Energy = energy associated with movement

Potential Energy = stored energy that can be used

Examples of Work & Force in Motion

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Marble Roller Coaster – What Goes Up... Must Come Down

Test 1 – Draw the path	Observations	Test 2 – Draw the path	Observations

Test 3 – Draw the path	Observations

Test 4 – Draw the path	Observations

The Marble Roller Coaster Challenge

Materials: pipe insulation tubes, marble, cup, masking tape

With your team design a Marble Roller Coaster path for your marble that has the following:

1. Uses only Potential Energy,
2. Make a 360 degree loop,
3. Makes a 90 degree turn,
4. The marble ends in the cup – not attached to the tubes.

Draw Your Design:

What did you learn?

How would you change your design? Write your ideas and make a new drawing.

Today I discovered.....