

Student Name: _____

Date: _____

Activity 2: Marble Collisions

Background

As we just saw, **Energy** can change. Now we are going to look at the **Law of Conservation of Energy**. This law does not mean saving energy. Instead, the law of conservation of energy says that energy is neither created nor destroyed. When people use energy, it doesn't disappear. Energy changes from one form of energy into another form of energy.

Question - Give an example of energy changing from potential to kinetic energy

Aim

To observe the law of conservation of energy.

Materials

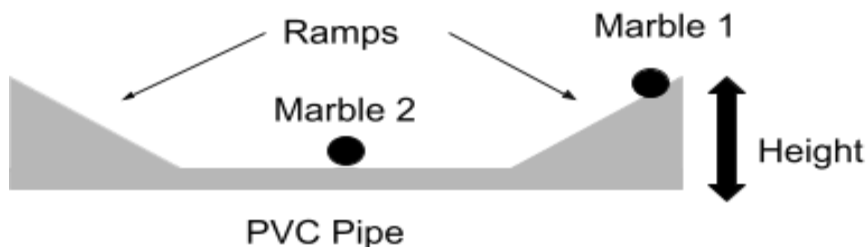
PVC pipe

2 Ramps

2 Plastic Marbles

Ruler

Track Diagram



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Method	
1	Set up the track as shown in the diagram.
2	Hold marble 1 at the top of one of the ramps and place marble 2 in the middle of the ramp at the 30cm mark.
Question: What kind of energy does marble 1 and 2 have? Explain. 	
3	Release marble 1 and let it roll down the ramp. Observe what happens when the marbles collide.
Question: Explain what happened to the energy for marble 1 and marble 2 	

