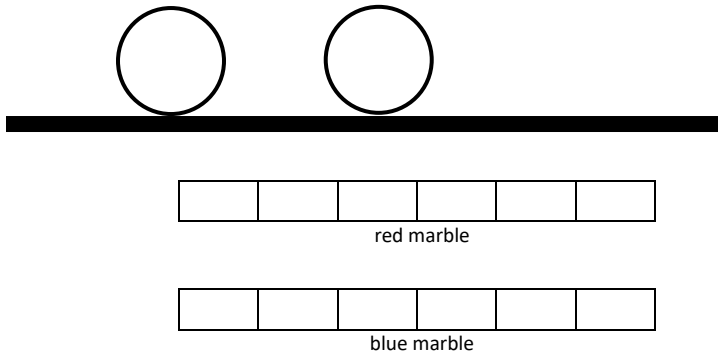


## Investigating Energy Changes in Collisions

### Trial 1: A Small Amount of Energy

**Energy bars**  
 red energy bars for the red marble  
 blue energy bars for the blue marble

1. The red marble is rolling toward the blue marble.

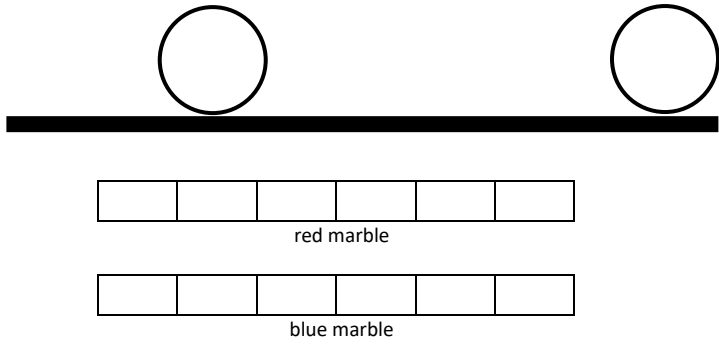


red marble

blue marble

➔

2. The red marble has just hit the blue marble.



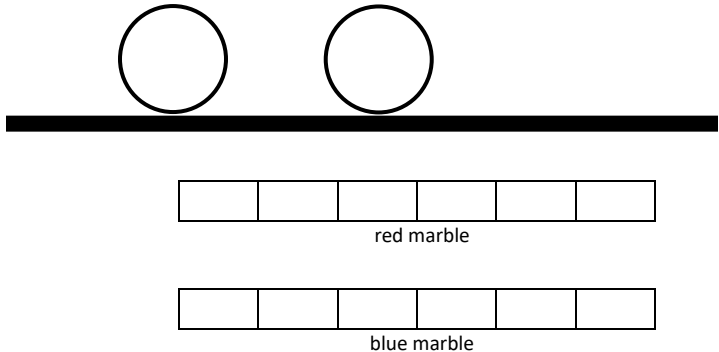
red marble

blue marble

### Trial 2: A Medium Amount of Energy

**Energy bars**  
 red energy bars for the red marble  
 blue energy bars for the blue marble

1. The red marble is rolling toward the blue marble.

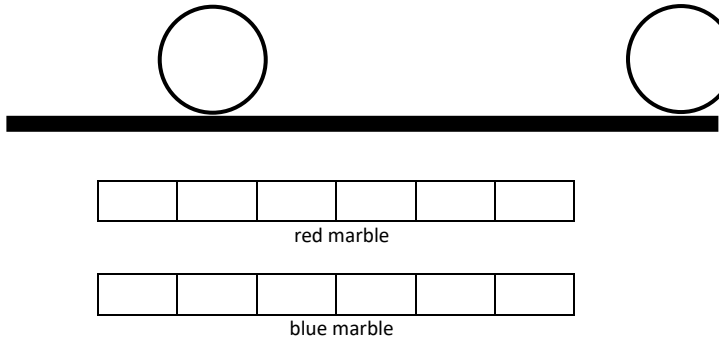


red marble

blue marble

➔

2. The red marble has just hit the blue marble.



red marble

blue marble

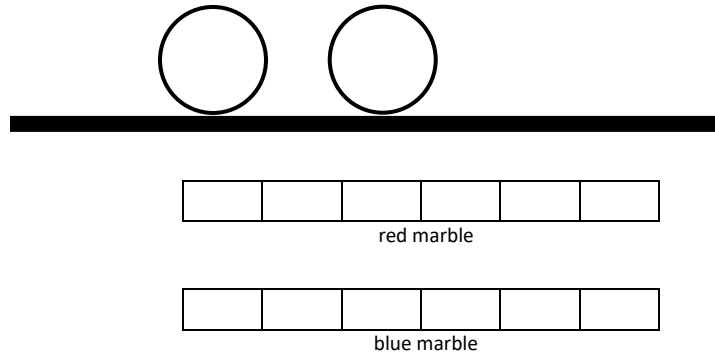
### Trial 3: A Large Amount of Energy

#### Energy bars

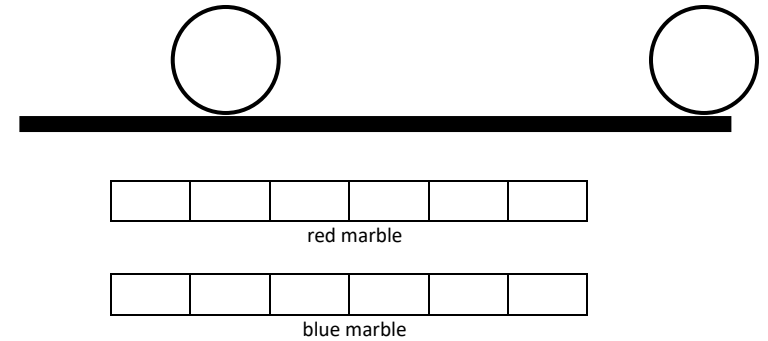
red energy bars for the red marble

blue energy bars for the blue marble

1. The red marble is rolling toward the blue marble.



2. The red marble has just hit the blue marble.



**Investigating Energy Changes  
Analogy Map**

Part of ruler-marble system	Represents ...	Part of car launcher system	They are alike because ...
Red marble			
Blue marble			
		Track	