

Relationship between Potential and Kinetic Energy

The Ball Drop Investigation

Starting Height	BOUNCE HEIGHT					
	Trial 1	Trial 2	Trial 3	Trial 4	Trial 5	Average Bounce Height
21 inches						
42 inches						
64 inches						

What patterns or relationships do you see in the data? _____

When did the ball have the most potential energy in this investigation? Explain your answer. _____

How is the potential energy in the ball changed to kinetic energy this investigation? _____

_____ .

How is the kinetic energy in the ball changed back to potential energy? _____

_____ .

Not all of the ball's potential energy was converted into kinetic energy. Where did this energy go? _____

_____ .

A basketball player throws a ball into the air and catches it before it hits the ground. Label where the ball has potential energy, kinetic energy, and two different energy conversions.