

# Notes: Potential and Kinetic Energy

## NOTES

1. **Energy** is anything that can cause matter to change.
2. **Potential Energy** is stored energy.
3. An object with potential energy has the ability to move or change.
4. Potential energy depends on an object's position or condition.

Example:

BrainPop: Write down at least 1 thing you learn from the video.

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5. **Kinetic Energy** is the energy of movement.
6. It depends on the mass and speed of a moving object.

Example:

BrainPop 2: Write down at least 1 thing you learn from the video.

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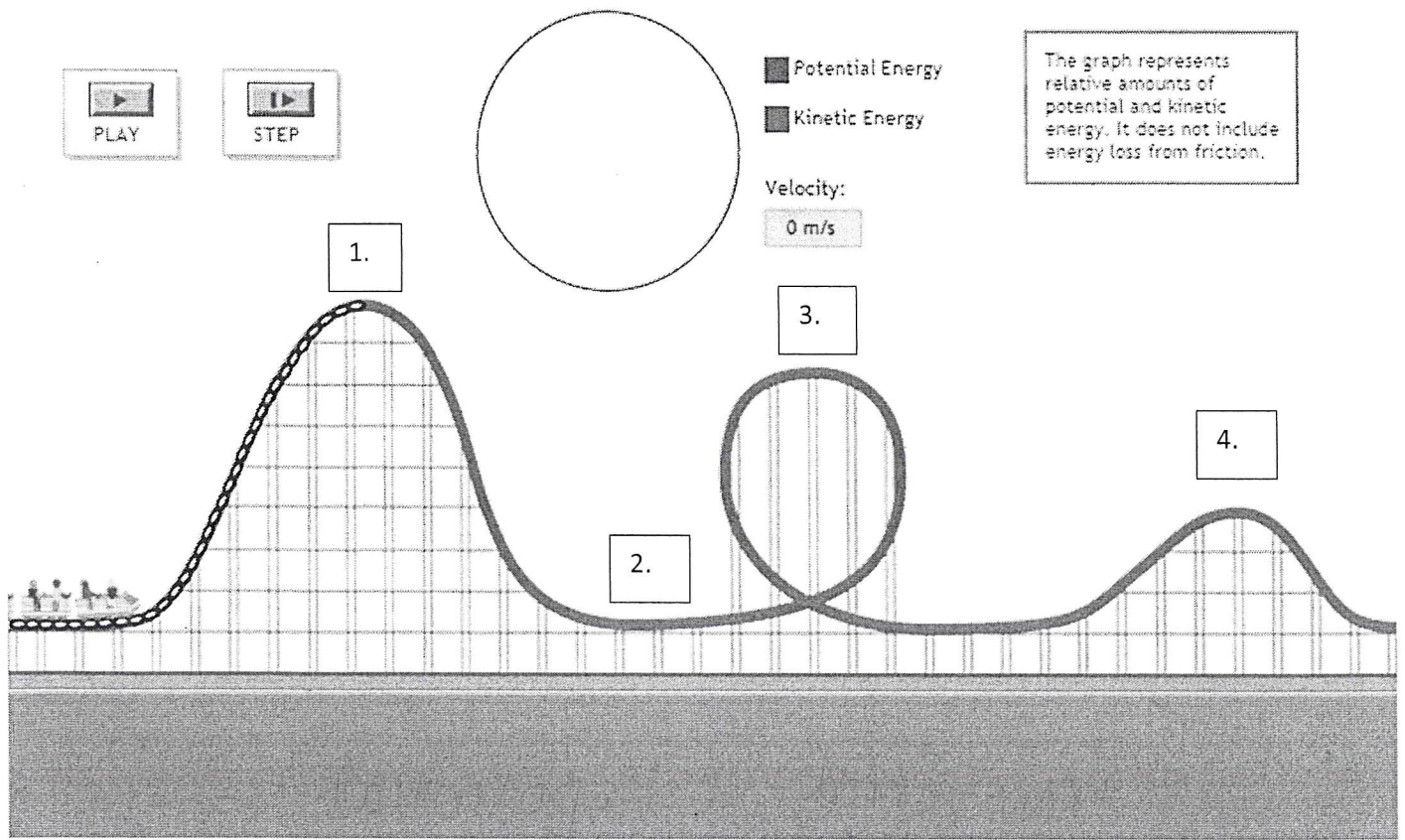


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1. Energy can be transferred from potential to Kinetic energy.
2. If an object has more potential energy to start, then it will have more kinetic energy when it starts moving.

## CARD SORT



Potential Energy	Kinetic Energy
Pictures in this category: <ul style="list-style-type: none"> <li>• weight in air</li> <li>• skydiver in plane</li> <li>• ball at top of hill</li> <li>• bow stretched</li> <li>• apple hanging from branch</li> <li>• guy on edge of diving board</li> <li>• roller coaster on top of hill</li> <li>• player holding bat back</li> </ul>	Pictures in this category: <ul style="list-style-type: none"> <li>• weight falling</li> <li>• apple + leaves falling</li> <li>• swinging bat</li> <li>• skydiver in air flying</li> <li>• guy diving off board</li> <li>• roller coaster going down the hill</li> <li>• ball rolling down the hill</li> <li>• ax swinging</li> </ul>
Reason these pictures are grouped together:	Reason these pictures are grouped together:



**Directions:**

Make a graph showing the amount of potential and/or kinetic energy there would be for each numbered place on the roller coaster.

**Key**

-  Potential Energy
-  Kinetic Energy

