

Lesson 6: What is Elastic Energy?

BBB: Raiders of the Lost Coffee Can

Purpose

Watch the video located at any one of the following addresses:

<http://goo.gl/sBJQ6G>

<https://vimeo.com/81956640>

<https://www.youtube.com/watch?v=TYnQrhWG35k&feature=youtu.be>



Your Progress:

- Mastery
- Proficient
- Developing
- Beginning

Questions:

1. (Multiple-Choice) Why does a basketball bounce **up**?
 - a. Kinetic energy converts to elastic energy that converts to gravitational energy.
 - b. Elastic energy converts to kinetic energy that converts to gravitational energy.
 - c. Gravitational energy converts to kinetic energy that converts to gravitational energy.
 - d. Kinetic energy converts to gravitational energy.
2. (Fill in the blank) _____ energy is energy that is released when an object is _____ and returns to its _____ shape by itself.
3. (Multiple-Choice) Is clay elastic? Why or why not?
 - a. Yes- clay can be deformed and it returns to its original shape by itself.
 - b. Yes- clay cannot be deformed and it does not return to its original shape by itself.
 - c. No- while clay can be deformed, it does not return to its original shape by itself.
 - d. No- clay cannot be deformed, but it does return to its original shape by itself.
4. (Multiple-Choice) Darts are released during this video. Examine the device that releases the darts. What is the order of energy conversions?
 - a. Kinetic energy → gravitational energy → elastic energy → kinetic energy
 - b. Elastic energy → gravitational energy → kinetic energy → elastic energy
 - c. Elastic energy → kinetic energy → gravitational energy → kinetic energy
 - d. Kinetic energy → elastic energy → kinetic energy → gravitational energy