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Brain Building Broadcast: Myth Busters- Pendulum Swing

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

http://goo.gl/Wddlk

http://vimeo.com/54962660

http://www.youtube.com/watch?v=43w1TyrSql8&feature=youtu.be

After carefully watching the video, answer the following questions:



- 1. (Multiple-Choice) What is the main myth Mr. Bingaman and Ms. Wong want to bust?
 - a. If you push away a pendulum and move forward, it will come back and hit you in the face.
 - b. If you let go of a pendulum and move forward, it will come back and hit you in the face.
 - c. If you push away a pendulum and stay still, it will come back and hit you in the face.
 - d. If you let go of a pendulum and stay still, it will come back and hit you in the face.
- 2. (Multiple-Choice) Which statement is **TRUE** when the box is at 100% gravitational energy?
 - a. The box is moving.
 - b. The box also has kinetic energy.
 - c. The box is above the reference point.
 - d. The box has no height.
- 3. (Multiple-Choice) What happens to the gravitational energy when the box falls?
 - a. The gravitational energy disappears.
 - b. The gravitational energy becomes kinetic energy.
 - c. The gravitational energy increases.
 - d. The gravitational energy remains constant.
- 4. (Multiple-Choice) When is a pendulum moving the FASTEST? Select 2 correct answers.
 - a. When the pendulum is at its lowest point.
 - b. When the pendulum is at its highest point.
 - c. When the pendulum has 100% kinetic energy.
 - d. When the pendulum has 100% gravitational energy.
- 5. (Multiple-Choice) When is a pendulum moving the **SLOWEST**? **Select 2 correct answers**.
 - a. When the pendulum is at its lowest point.
 - b. When the pendulum is at its highest point.
 - c. When the pendulum has 100% kinetic energy.
 - d. When the pendulum has 100% gravitational energy.