**ENERGY WEBQUEST**

**Assessment**

1. "Energy cannot be created nor destroyed in any chemical reaction. It can only be changed from one form to another." This is known as the Law of:

A. Energy Transformation

B. Conservation of Energy

C. Energy Transfer

2. During energy transformation, energy is never \_\_\_\_\_\_\_\_\_\_\_\_.

A. used to increase an object's potential energy

B. released as heat

C. created or destroyed

3. As energy transformations occur within a system, the total energy of the system \_\_\_\_\_\_\_\_\_.

A. remains constant

B. decreases

C. increases

4. Which of the following objects has kinetic energy?

A. a ball rolling across the floor

B. leaves lying on the ground beneath a tree

C. a bicycle parked at the top of a hill

5. \_\_\_\_\_\_\_\_\_\_\_\_\_\_ is the energy stored in an object due to its position.

A. Kinetic energy

B. Thermal energy

C. Potential energy

1. The diagram below shows a roller coaster. Use this diagram to answer the next question.


(From: [http://galileo.phys.virginia.edu/education/
outreach/8thgradesol/EnergyPendulum.htm](http://galileo.phys.virginia.edu/education/outreach/8thgradesol/EnergyPendulum.htm%22%20%5Ct%20%22_blank))

At what point in the journey of the roller coaster is potential energy transforming into kinetic energy?

1. Point A
2. Point B
3. Point C
4. Point D

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**(**From:[http://albertgrasmarti.org/agm/recerca-divulgacio/pendulum-TPT.pdf](http://albertgrasmarti.org/agm/recerca-divulgacio/pendulum-TPT.pdf%22%20%5Ct%20%22_blank)**)**

In the figure above

* 1. position A is the point of maximum potential energy and minimum kinetic energy.
	2. position B is the point of maximum potential energy and minimum kinetic energy.
	3. position A is the point of maximum kinetic energy and minimum potential energy.
	4. position B is the point of maximum kinetic energy and minimum potential energy.
1. Below is a figure of a pendulum. The letters represents specific points that the pendulum passes through in its swing. Use this figure to answer the next question.

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**(**From:[http://albertgrasmarti.org/agm/recerca-divulgacio/pendulum-TPT.pdf](http://albertgrasmarti.org/agm/recerca-divulgacio/pendulum-TPT.pdf%22%20%5Ct%20%22_blank)**)**

In the figure above, the letter representing the point where kinetic energy and potential energy are equal is

1. Point A
2. Point B
3. Point C
4. Point A'