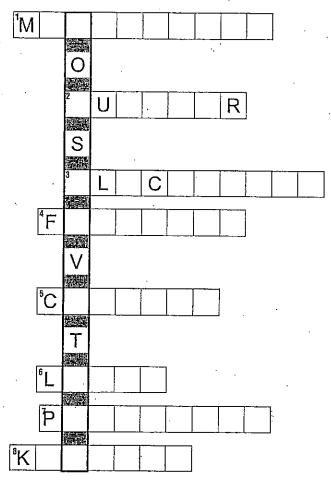
Content Mastery

Directed Reading for Section 2 - Conservation of Energy

Directions: Write the term that matches each description below on the spaces provided. The boxed letters should spell the answer to question 9.



- 1. Type of energy due to both the position and motion of an object
- 2. Type of reaction in which mass is transformed into energy
- 3. Type of energy transformed into thermal energy in a toaster
- 4. Force that acts between two sticks when they are rubbed together
- 5. Unit used to measure the amount of energy that people get from food
- 6. Type of energy transformed into chemical energy by plants
- 7. Type of energy that is greatest at the top of a swing's path
- 8. Type of energy that is greatest at the bottom of a swing's path
- 9. What law of energy has never been broken?

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Conservation of Energy

Directions: *In each of the following situations, energy is changed from one form to another. Study each situation and identify the energy transformations in the space provided.*1. An electric blanket warms a bed on a chilly night.

A rock in Death Valley, California, becomes hot during a summer afternoon.
A deputy sheriff rides a horse while directing traffic.
A chandelier brightens a ballroom after a waiter moves a switch.
A swallow sitting on a fence sings a song for anyone who will listen.
A jet plane rapidly accelerates on the runway.
A walnut falls to the ground from a lofty branch on a walnut tree.
A placekicker sends a football through the uprights of a goalpost.
A base runner slides safely into third base.

10. A nuclear powered submarine transports its crew from New Orleans to Mobile.