

Forms of Energy and Energy Transformations Practice

Name _____

Date _____

LT: I can identify and describe the different forms of potential and kinetic energy. _____

LT: I can give/explain examples of energy transformations. _____

Potential and Kinetic Energy

Identify each of the following forms of energy as either potential energy (P) or kinetic energy (K).

_____ Sound _____ Nuclear _____ Elastic _____ Electric
_____ Chemical _____ Gravitational _____ Thermal _____ Electromagnetic

a. Choose one of the above forms of potential energy and describe why it fits in this category.

b. Choose one of the above forms of kinetic energy and describe why it fits in this category.

Forms of Energy

Match the energy form(s) to the description provided. Questions may have more than one answer. Pick the form(s) of energy **most clearly demonstrated**.

- | | |
|---|------------------------------|
| _____ 1. A boulder resting at the top of a hill | a. Translational motion |
| _____ 2. Release of energy from the Sun | b. Electric |
| _____ 3. A coiled spring | c. Electromagnetic (radiant) |
| _____ 4. Batteries not in use | d. Chemical |
| _____ 5. The energy that runs a refrigerator | e. Nuclear |
| _____ 6. Nuclear fission reactors | f. Sound |
| _____ 7. The rumble of thunder from a storm | g. Elastic |
| _____ 8. Rubbing your hands together | h. Gravitational |
| _____ 9. Gasoline stored in a tank | i. Rotational motion |
| _____ 10. Food before it is eaten | j. Thermal (heat) |
| _____ 11. A guitar string vibrating | |
| _____ 12. A top spinning | |
| _____ 13. Sledding down a hill | |
| _____ 14. Candle burning | |
| _____ 15. A taut rubber band (fully stretched) | |

