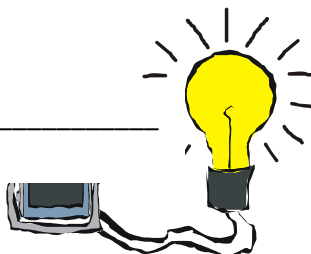
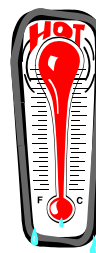
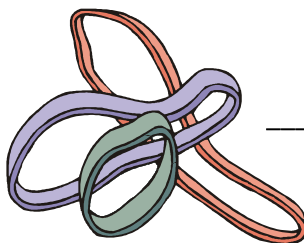
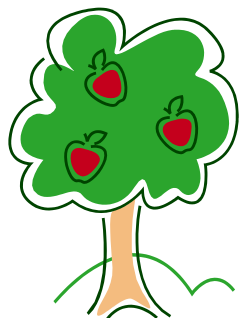


Name: _____ Date: _____ Physical Science Period: _____

Energy Transformation Practice

Energy Choices: mechanical, thermal, chemical, electrical, electromagnetic (light), nuclear, sound, gravitational, elastic, kinetic

Label the type of energy represented in each illustration:



Please identify the energy conversions in the following examples:

1. Electric Fan heater: _____ → Heat + _____
2. Bonfire: _____ → _____ + light
3. Wind-up walking toy: elastic → _____
4. iPad: _____ → Light + _____
5. Solar Cell: _____ → _____
6. Plants convert _____ to _____.
7. A motorcycle converts _____ energy to _____ energy when it moves.

8. When a match is lit, _____ energy converts to _____ and _____.
9. In the sun, _____ energy is converted to _____ and _____ energy.
10. A windmill converts _____ energy to _____ energy.
11. Flashlight converts _____ energy to _____ energy.
12. A microwave converts _____ energy to _____ energy.
13. When you pedal a bicycle, you convert _____ energy to _____ energy.

Give an example of the following energy conversions:

14. Chemical to thermal: _____
15. Mechanical to thermal: _____
16. Mechanical to electromagnetic: _____
17. Nuclear to thermal: _____
18. Electromagnetic to thermal: _____
19. Electromagnetic to mechanical: _____
20. Thermal to mechanical: _____

List the energy transformations associated with the following actions.

21. Pencil falling from a desk _____
22. Using a battery to power a handheld fan _____
23. Digesting food _____
24. Photosynthesis _____