Energy Transformation Mr. Stewart

Physical Science December, 2012

1. What is an energy transformation?
2. Give an example of a single energy transformation.
3. How does your body use the energy contained in food?
4. List three common energy transformations.
	1.
	2.
	3.
5. Give an example of a multiple energy transformation.
6. Name the energy conversions involved in making a car move.
	1.
	2.
	3.
	4.
7. What energy transformation is involved in a waterfall?
8. Where does a juggled orange have the most potential energy?
9. When does kinetic energy in the orange increase?
10. How do energy transformations in a pendulum take place?
11. Where does a pendulum have the greatest potential energy?
12. How does a pole-vaulter transform energy?
13. What does elastic potential energy transform into during a pole vault?
14. What does the Law of Conservation of Energy say about destroying energy?
15. According to the Law of Conservation of Energy, \_\_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_ \_\_\_\_\_\_.
16. What happens when a moving object encounters friction?
17. Why is no machine 100% efficient?
18. What is one way that energy ***can*** be created?
19. How has the Law of Conservation of Energy been forced to be adjusted?
20. What energy transformation happens with the Sun shining on plants?
21. What energy transformation happens with a moving car?
22. What energy transformation happens with a turning fan?
23. What energy transformation happens with a person running?
24. What energy transformation happens with a lamp shining?
25. What energy transformation happens with water and a dam?
26. What energy transformation happens with a toaster?
27. What energy transformation happens with a flowing river? Why?
28. What energy transformation happens with a water windmill?
29. What energy transformation happens with a windmill turbine?
30. What energy transformation happens with solar panels?
31. What energy transformation happens with a Venus Fly Trap?
32. What energy transformation happens with running animals?
33. What energy transformation happens with swimming fish?
34. What energy transformation happens with a tractor plowing a field?
35. What energy transformation happens with a steam turbine?
36. What energy transformation happens with a flying airplane?
37. What energy transformation happens in a nuclear power plant?
38. What energy transformation happens with a firefly?
39. What energy transformation happens with a rechargeable battery?
40. What energy transformation happens with an old fashioned saw mill?
41. What energy transformation happens in a refrigerator?
42. What energy transformation happens with a flag blowing in the wind?