Energy and Energy Transformation Task Cards

Energy and Energy Transformations 13 and Energy Transform ETIC ENERGY one example. At which point will the apple have the greatest amount of KINETIC ENERGY? At which point will the cannonball What type of energy would be have the greatest amount of represented at the top of a rollercoaster track? POTENTIAL ENERGY? 25 Energy and Energy Transformation Energy and Energy Transformations 26 Identify the type of heat transf the picture above. onversion takes place B. Convec A. Conduction B. C. Radiation the ground? Includes the following: Identify the energy transformations Identify the energy transformations that occur in a flashlight. that occur in a car. -Forms of Energy -Potential and Kinetic Energy and Energy Transformations 27 Energy and Energy Transformations 28 Conduction, Convection, and Radiation Identify the energy transformations Identify the energy transformations -Energy Transformations that occur in a television. that occur in a camp fire.

Describe MECHANICAL ENERGY and identify one example.

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Describe RADIANT ENERGY and identify one example.

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Describe CHEMICAL ENERGY and identify one example.

3

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Describe ELECTRICAL ENERGY and identify one example.

Describe NUCLEAR ENERGY and identify one example.

5

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Describe THERMAL ENERGY and identify one example.

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8

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Describe SOUND ENERGY and identify one example.

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Describe POTENTIAL ENERGY and identify one example.

Describe KINETIC ENERGY and identify one example.

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What type of energy would be represented at the top of a rollercoaster track?

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What type of energy would be represented near the bottom of a rollercoaster track? Energy and Energy Transformations



10

What energy conversion takes place as a leaf falls to the ground?





What is ENERGY? What is an ENERGY TRANSFORMATION?

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What does the LAW OF CONSERVATION OF ENERGY state?

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Identify the energy transformations that occur in a nuclear power plant.

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Identify the energy transformations that occur in a solar panel.



Identify the energy transformations that occur in a flashlight.

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Identify the energy transformations that occur in a car.

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Identify the energy transformations that occur in a television.

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Identify the energy transformations that occur in a camp fire.



Identify the energy transformations that occur in a blender.

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Identify the energy transformations that occur in a lamp.

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Identify the energy transformations that occur in a car.

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Identify the energy transformations that occur in a ceiling fan.

Name: _____

Date:	

Energy and Energy Transformations: Task Card Answer Sheet

1.	9.	17.	25.
2.	10.	18.	26.
3.	11.	19.	27.
4.	12.	20.	28.
5.	13.	21.	29.
6.	14.	22.	30.
7.	15.	23.	31.
8.	16.	24.	32.

Energy and Energy Transformations: Answer Key

1. Energy of motion or position (ex. running or water at top of waterfall)	9. Energy of motion (ex. flowing water)	17. C	25. Chemical to Electrical to Radiant (light)
2. Energy of light (ex. light bulb)	10. Potential energy	18. B	26. Chemical to Mechanical and Thermal
3. Energy stored in the bonds of molecules (ex. battery)	11. Kinetic energy	19. C	27. Electrical to Sound and Radiant (light)
4. Energy of moving electrons/electric charges (ex. kitchen appliances)	12. Potential to kinetic energy	20. A	28. Chemical to Thermal and Radiant (light)
5. Energy locked in the nucleus of an atom (ex. Sun)	13. B	21. Energy- the ability to do work; Energy Transformation- changing energy from one form to another	29. Electrical to Mechanical and Sound
6. Energy of heat (ex. oven)	14. C	22. Energy cannot be created or destroyed; it can be transformed from one form to another	30. Mechanical to Sound
7. Energy from vibrations in matter (ex. voices)	15. A	23. Nuclear to Thermal to Electrical	31. Electrical to Radiant (light) and Thermal
8. Stored energy or energy of position (ex. boulder on edge of a cliff)	16. B	24. Radiant (light) to Electrical	32. Electrical to Mechanical