

Energy and Energy Transformation

Name: _____

1. What type of energy is stored in a book sitting on a shelf 2 meters above the ground?
2. When you swing a bat trying to hit a baseball, you are using which form of energy?
3. Which is an example of chemical potential energy?
4. What type of energy do your teeth use when chewing your food?
5. What happens to the energy of a rollercoaster when it reaches the top of the hill and stops for a moment before it goes down the hill?
6. The Law of Conservation of Energy states:
7. When you burn wood at a campfire, energy is transformed from ___ to ___
8. A basketball held at arms length above the ground has:
9. The formula for kinetic energy is:
10. Solar panels use what type of energy?
11. A bungee cord has which type of energy?

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12. Thermal energy is how which of these appliances work
13. What happens to the potential energy of a golf ball as it is hit by a golf club?
14. When sunlight warms the pavement __ energy is transformed to __ energy
15. Which item has more kinetic energy?
16. The formula for gravitational potential energy is—
17. The bonds in a sugar molecule are __ energy
18. A microwave uses __ energy to cook food
19. What is the kinetic energy of a 100kg baby elephant moving 5 meters per second
20. What is the potential energy of a 6 kg dictionary sitting on the edge of a 1m high counter in the library.