

Not Just in Light Bulbs Answer Key (Modified)

Directions: Electricity can be found in many places, including some that may surprise you. These are just a few examples of electricity in action. For numbers 1-9, match each scenario to the correct explanation of how electricity is produced by or related to it.

1. Lightning	a. Can be used to turn a generator and produce electricity.
2. Wind	b. Rubbing causes electrons from one object to transfer to the other. This movement of electrons is static electricity.
3. A balloon and a sweater	c. Used by many power plants to produce electric power, but this releases harmful waste into the environment.
4. Shuffling feet across a carpeted floor	d. An example of electricity in nature. Electricity travels through the droplets of moisture in the air.
5. Your body	e. An example of electricity in nature. The nervous system uses electric signals to coordinate your body's various systems.
6. Running water	f. Burned by many power plants to produce electric power, but there is a limited supply of these and burning them harms the planet.
7. Solar panels	g. Can be harnessed through turbines and converted into electricity.
8. Fossil fuels	h. Convert the sun's energy directly into electricity.
9. Nuclear fuels	i. Rubbing causes electrons to transfer from one object to another. The object that loses electrons then has a positive charge and is attracted to the object that gained electrons, giving it a negative charge.

Answers:

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| 1. Lightning - d | 6. Running water - a |
| 2. Wind - g | 7. Solar panels - h |
| 3. A balloon and a sweater - b | 8. Fossil fuels - f |
| 4. Shuffling feet across a carpeted floor - i | 9. Nuclear fuels - c |
| 5. Your body - e | |