

## ELECTRICITY - KEY

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1. What are the three parts of an atom ? **protons, neutrons, electrons**
2. When is electricity created? **when electrons move between atoms**
3. Name a few examples of static electricity. **rubbing a pullover against an object, dragging feet on a carpet, lightning**
4. Name a few examples of current electricity. **electrical appliances, like a toaster, TV set, computer etc..**
5. What does a battery have in it to keep it charged? **liquid or paste with a chemical in it**
6. What are good conductors? Give examples. **copper, aluminum, steel**
7. What are good insulators? Give examples. **rubber, glass, plastic, dry wood**
8. How is an electric current created? **when electrons move through a conductor**
9. How can you stop a current from flowing? **put a switch into the circuit**
10. A current that flows back and forth is called **alternating current**
11. How can a wire produce heat ? **electric current can be slowed down by resistance; this causes friction, which causes heat**
12. How is the wiring in buildings and other objects protected? **through fuses**
13. What can electric shock lead to? **heart failure, burn your skin**
14. What should you do during a thunderstorm? **stay away from open fields and high places**
15. How is electricity measured ? **in watt**
16. How much is one horsepower? **750 watts**
17. How is mechanical energy transformed to electrical energy ? **with a generator**
18. How do river power stations work? **water pushes a blade of a turbine which is connected to a generator**
19. What does a transformer do ? **changes the voltage**
20. How is electricity transported from one place to another ? **through power lines**