

## Making Electricity

Name \_\_\_\_\_

Go to “Making Electricity” presentation at <http://prezi.com/ywzkebeyuqmd/>.

1. Electricity is made with a device called a \_\_\_\_\_.
2. To create electricity, coils of wire are rotated within a \_\_\_\_\_  
\_\_\_\_\_.
3. List some things typically used to make a turbine spin:
4. DIAGRAM: Trace the path of energy flow from coal to electricity and tell what kind of energy is in each step.
5. VIDEO: What type of fuel is used to run the power plant in the video? \_\_\_\_\_  
Where does the cooling water come from? \_\_\_\_\_
6. What is a major disadvantage to using fossil fuels?
7. What is the biggest disadvantage of using nuclear power?
8. VIDEO: The video shows a chain reaction. What particle smashes into a uranium nucleus to start the chain reaction? \_\_\_\_\_
9. The biggest advantage of using renewable resources is that they never run out. What is a disadvantage of using hydroelectric power?
10. VIDEO: Where does the water go after it has done its job of turning the turbine?
11. What are 2 disadvantages of using wind energy?
12. VIDEO: Give one other disadvantage of using a wind turbine to produce electricity.
13. Solar energy does not require a \_\_\_\_\_ or \_\_\_\_\_ to produce electricity. But what is one disadvantage?
14. VIDEO: What is a tiny packet of energy called? \_\_\_\_\_ What are solar cells made of? \_\_\_\_\_