Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Class: \_\_\_\_\_\_\_\_ Date \_\_\_/\_\_\_/\_\_\_

**Sources of Electrical Energy**

**Quiz**

1. What does electricity come from?

**A** Air

**B** Charge

**C** Government

**D** Wires

1. How much of our total energy use comes from electricity?

**A** 10 percent

**B** 25 percent

**C** 40 percent

**D** 88 percent

1. Where does most of the electrical energy we use in the United States come from?

**A** Nuclear power

**B** Wind power

**C** Solar power

**D** Fossil fuels

1. A utility pole is an example of what type of infrastructure?

**A** Electrical generation

**B** Electrical distribution

**C** Roads and bridges

**D** Homes and businesses

1. Which of the following is the largest fuel source for electricity?

**A** Coal

**B** Petroleum

**C** Nuclear

**D** Hydro

1. How much of our total electricity generation do we get from renewable energy sources?

**A** 2 percent

**B** 13 percent

**C** 25 percent

**D** 50 percent

1. Which of the following is a chemical process?

**A** Fission

**B** Converting heat into steam

**C** Condensation

**D** Combustion

1. Which of the following process is used in a turbine?

**A** Converting fuel into heat

**B** Converting thermal energy in steam to mechanical energy

**C** Electromagnetic induction

**D** Converting electrical energy into mechanical energy

1. Which of the following process is used in a generator?

**A** Converting fuel into heat

**B** Converting thermal energy in steam to mechanical energy

**C** Electromagnetic induction

**D** Converting electrical energy into mechanical energy

1. What does it take to get more electrical energy out of a generator?

**A** More mechanical energy in

**B** More heat in

**C** More fuel in

**D** All of the above

1. Oil production in the United States is \_\_\_\_\_\_\_\_\_\_\_\_ since the late 2000s.

**A** Increasing

**B** Decreasing

**C** Steady

**D** Non-existent

1. List 3 ways electricity is useful.
2. Describe the complete electricity generation process from fuel to electricity.