Science: Electricity.

Where Does Electricity Come From? Hydro and Wind **Fossil Fuels** Water is used in dams, and wind is There are two types of electrical current that we use to power Coal, oil and natural gas are appliances: used to turn windmills. These both BULB fossil fuels. Burning them generate electricity. produces heat, which generates electricity. Solar BUZZER М The sun's rays shine on special panels, Nuclear which convert its energy into electricity. This is the energy that is MOTOR created when atoms are either Geothermal combined or split, creating Geothermal energy is heat from the Earth, heat. This can be converted Mains electricity: which is an Batteries: which generate a WIRE which can be converted into electricity. into electricity. alternating current (AC). direct current (DC). Mains Electricity Battery Electricity Renewable Non-renewable BATTERY/CELL Solar Nuclear Fossil fuels SWITCH Geothermal Hydro Wind To use this type of electricity, you To use this type of electricity, you need to plug the appliance into a need to insert a battery into the socket. appliance. **Electrical Insulators** Vocabulary: Electrical Conductors An electrical circuit can be complete or incomplete. **Appliance**—a device or piece of equipment designed to perform a task. Energy—Power needed to provide light and heat or to work machines. **Incomplete Circuit Complete Circuit Complete circuit**—There must be wires connected to both the positive and negative ends of the power supply. Incomplete circuit—If a circuit has gaps, then it is considered an incomplete circuit, and no electricity will flow through it. Conductor—A material that electricity can pass through easily. Insulator— A material which does not easily allow electricity to pass through it.