

Resta

Topic: Electricity Year: 6 Term: 5 **Background Information** Interesting facts Vocabulary To know that: . Electricity travels at the speed of light -- more than How electric current is measured. amps 186,000 miles per second! associate the brightness of a lamp or the volume of a • Giving off light or filled with much light bright A spark of static electricity can measure up to 3,000 buzzer with the number and voltage of cells used in ٠ circuit A path that an electrical current can flow the circuit volts. • Lightning is a discharge of electricity in the atmosphere. around. compare and give reasons for variations in how com-• An image to show a working circuit. Lightning bolts can travel at around 130,000 miles per circuit ponents function, including the brightness of bulbs, hour and reach nearly 54,000 °F in temperature. diagram the loudness of buzzers and the on/off position of Electric eels can produce strong electric shocks of around • circuit A visual picture that stands for a part of an switches 500 volts for both self-defense and hunting. electrical circuit. symbol use recognised symbols when representing a simple • Have you ever wondered why birds sitting on a power The flow of electrons, measured in amps. current circuit in a diagram line don't get electrocuted? If a bird sits on just one pow-Not giving or having much light. dim er line it is safe. However, if the bird touches another line Diagrams with a wing or a foot, it creates a circuit, causing the electron Very small particles that travel around an electricity to flow through the bird's body. This results in electrical circuit. electrocution. An electrical safety device having a metal fuse Coal is the world's biggest source of energy for producing . wire or strip that melts and interrupts the electricity. Coal is burned in furnaces that boil water. The circuit when the current becomes too steam from the boiling water then spins turbines that strong. are attached to generators. The difficulty that the electric current has resistance Dim to bright Did you know that electricity plays a role in the way your • when flowing around the circuit. heart beats? Electricity causes muscle cells in the heart A circuit in which the electric current passseries circuit to contract. Electrocardiogram (ECG) machines, used by es through each of the connected part in medical professionals, measure the electricity going turn. through the heart. As the heart beats in a healthy per-The force that makes the electric current voltage son, the ECG machine displays a line moving across the move through the wires. The greater the screen with regular spikes. voltage, the more current will flow. ECG scan The start of the scale Know how to / Activity The hard we we proposed the Watch this clip. https://www.youtube.com/watch?v=Wt9TOhUtLlo Juli de forder de forder de la Can you explain the function of each part of the motor? Can you think of other ways motors are used? 2 July July July July July July Electric fields work in a similar way to gravity. Whereas . gravity always attracts, electric fields can either attract or repulse.