Electricity and magnetism are related effects. Magnetism is a force that exerts a push or pull. Like poles of a magnet repel. Opposite poles of a magnet attract. Electricity may be static or Electric energy may Current electricity is the flow of charge/electrons in a complete be transferred into current. circuit. heat light, sound, and motion. Magnets may be natural or man-made. Lodestones are natural magnets made Static electricity is the build up of magnetite. Magnets are found of electric charge. throughout the world and have many A circuit is a path by which uses. charge/electrons flow in a There are many complete circuit. uses of Static electricity may be electricity, e.g., discharged. Lightning is the doorbells, Magnets produce a magnetic field. discharge of static electricity. motors, toys, There are three types of etc. circuits: simple series, and parallel. Electrons are part of the atom Earth acts as a giant magnet. with a negative charge. Electrons move. A simple A parallel circuit has multiple circuit is a pathways for electricity to Earth's magnetic field is caused by single path follow,. If one bulb goes out in circulating electric fields that surround by which a parallel circuit, the remaining Electrically charges objects the molten core. electricity bulbs stay lit because there are attract or repel each other. can travel. multiple pathways for the Oppositely charged objects electricity to follow. attract each other. Like charged objects repel each other. A compass is an instrument that uses a freely moving magnetic needle to A series circuit is a simple circuit. If one indicate direction. bulb goes out in a series circuit, all bulbs will go out because there is only one path for the electricity to follow. An electromagnet is a piece of iron that becomes a temporary magnet when electricity flows through an insulated wire wrapped around it. Switches are devices that Electricians open and close circuits. use specific Grade 5 Physical Science: Magnetism and Electricity symbols to indicate Introduction and Conceptual Flow Narrative schematics \*SCIENCE MATTERS of electric circuits.