Our Lady's Catholic Primary School - Knowledge Organiser Year 4 Design Technology **Alarms** Key Vocabulary Key Learning Objectives: Images / Diagrams 1. To investigate how to make Circuit Closed circuit circuits with a variety of Complete circuit different switches Switch 2. To design and create an alarm Mains system for a particular purpose. Electricity 3. To evaluate my work. wire bulb motor Skills used in this unit: Key facts & Information M Joining Many alarms use switches to 'arm' them - These switches Evaluating include on/off, push-to-break Making Cutting and push-to-make switches. battery buzzer switch Designing Drafting • Electrical circuits work by a flow Using tools of electricity powering effectively components. For the components Shaping Imagination to work, the circuit needs to be Exploration closed. Generating Don't make short circuits - If Selecting Analysing you make a circuit without a PUSH-TO-MAKE SWITCH PUSH-TO-BREAK Constructing bulb, buzzer or a motor it could SWITCH CIRCUIT CIRCUIT SYMBOL: SYMBOL: overheat and cause a fire.