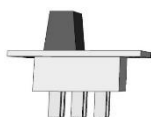


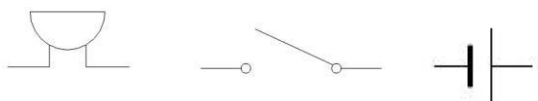
Build-a-House Worksheet

Name:

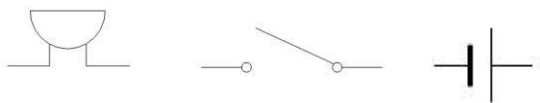
Label these electrical parts (components) used in your doorbell and lighting circuits: buzzer, push-to-make switch, bulb and bulb holder, slide switch, battery holder and cell, crocodile lead.



Draw your doorbell circuit using these circuit symbols and using lines to represent the wires. Label the components.

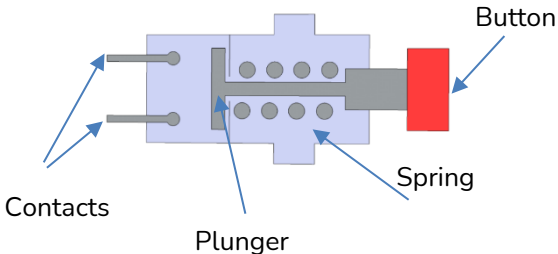


Draw your lighting circuit using these circuit symbols and using lines to represent the wires. Label the components.



Why did you need to attach the crocodile clips onto bare metal, not onto plastic insulation?

What will happen if you leave the circuit switched on for a long time?

Does it matter which way round you connect your buzzer?	
Does it matter which way round you connect your bulb?	
Suggest a problem with using a push-to-make switch for a lighting circuit.	
Suggest a problem with using a slide switch for a doorbell circuit.	
Your battery only gives 1.5 Volts, whilst mains electricity used to wire a real (UK) house uses 240 Volts. Suggest some hazards of mains electricity.	
Extension questions	
<p>Explain how a push-to-make switch works.</p> 	
Suggest some reasons why houses in cold climates usually have sloping roofs.	
What enables a pipe cleaner to retain its shape when you bend it?	