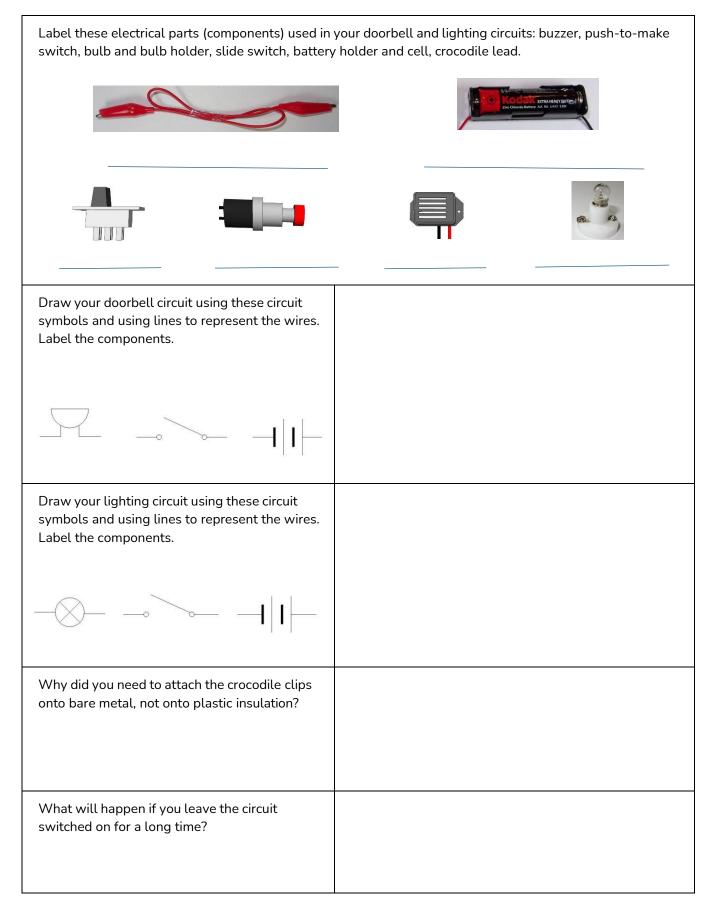
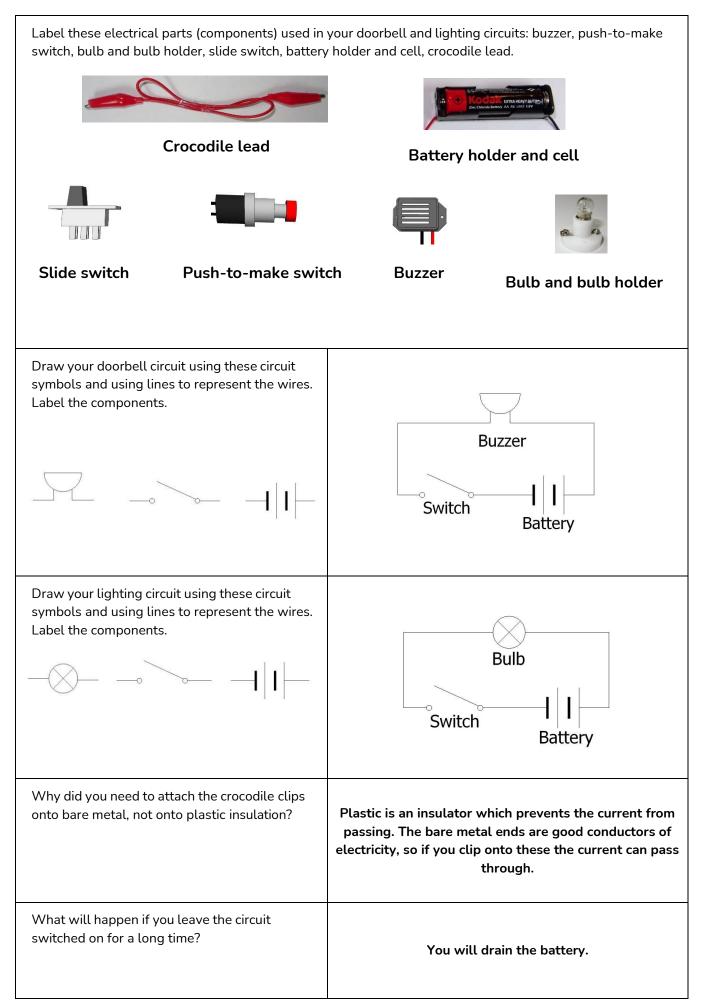
Build-a-House Worksheet

Name:....



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	
Explain how a push-to-make switch works.	
Contacts Plunger	
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?	

Suggested Answers



Does it matter which way round you connect your buzzer?	Yes
Does it matter which way round you connect your bulb?	No
Suggest a problem with using a push-to-make switch for a lighting circuit.	If you use a push-to-make switch for a lighting circuit then as soon as you take your finger off the switch the light will go out.
Suggest a problem with using a slide switch for a doorbell circuit.	If you use a slide switch for a doorbell then the person ringing the bell might just switch it on and leave it ringing, which would be really annoying!
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.	Some hazards of mans electricity include: Electric shocks Electrocution Electrical Fires
Extens	sion questions
Explain how a push-to-make switch works. Button Contacts Plunger	When you press the button, the plunger moves down and bridges the two contacts, completing the circuit. When you release the button, the spring pushes the plunger back up, so the two contacts are no longer connected, creating a gap in the circuit.
Suggest some reasons why houses in cold climates usually have sloping roofs.	Houses in many countries have sloping roofs, as it helps the rain to run off. In cold countries it is particularly important to have a sloping roof to help the snow slide off. A big build-up of snow is very heavy and can damage the roof. Many houses in hot, dry countries have flat roofs.
What enables a pipe cleaner to retain its shape when you bend it?	The metal (steel) core of the pipe cleaner is malleable, allowing the pipe cleaner to be bent easily and then retain its new shape.