

# Lesson 3 - Could you be the next Nintendo apprentice?

## LC: Can I understand and use circuit diagrams?

<https://classroom.thenational.academy/lessons/what-are-circuit-diagrams-6ngk0c?activity=video&step=2&view=1>

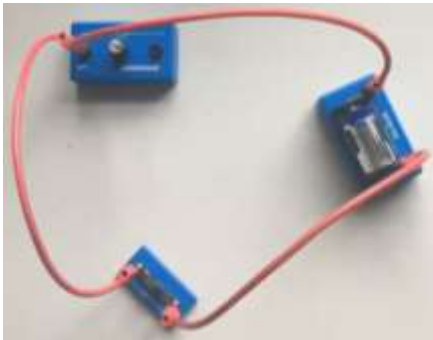
Watch the online lesson video. The following questions will be answered during the video. Make a note of the answers either in your pink books, or save them on this document to submit to me on Google classroom.

### Activity 1: Recap

Write the names of these components:



Why won't this circuit work?



### Activity 2: Component symbols

Draw this table and draw the symbol in each box:

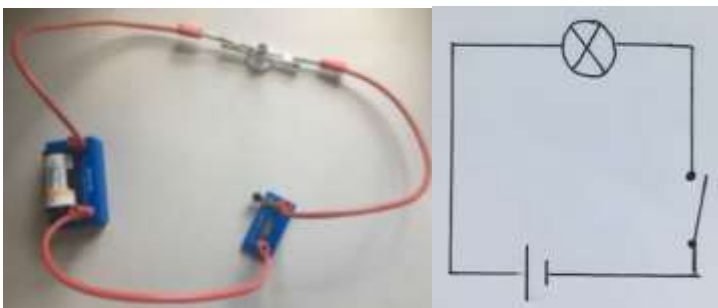
Cell	Battery	Lamp
Buzzer	Switch open	Switch closed

Which component is being described?

1. Makes a sound when electricity flows through it.	
2. Lights up when electricity flows through it.	
3. Powers the circuit to enable electricity to flow.	
4. Can break the circuit if it is 'open'	
5. When two or more cells are used together.	

### Activity 3: Drawing a circuit

Practise drawing this circuit diagram first. You can see what the circuit would look like in real life, then there is an example of a drawn diagram for you to copy:



Next, try to draw a circuit diagram for this circuit. Remember to identify the parts of the circuit first:

Please note that in the video, the teacher draws the wrong version of a switch to begin with, she wants a closed switch but draws an open one. She does correct herself but can you make sure that you draw the correct switch please.



Finally, draw this circuit independently:

