

## Lesson 2 - Could you be the next Nintendo apprentice?

### LC: Can I identify components in an electrical circuit?

<https://classroom.thenational.academy/lessons/what-are-the-different-components-in-an-electrical-circuit-cdk34d>

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: Electrical Circuits

1. What do we call the loop through which electricity moves?
2. Which parts of the circuit do these pictures represent?



3. Which description matches which component?

buzzer      cell      lightbulb      switch

1. An object that makes a gap in the circuit to stop the electricity flow.	
2. An object that lights up when electricity flows through it.	
3. An object that makes a sound when electricity passes through it.	
4. An object that provides the power supply for the circuit.	

#### Activity 2: Rules for building electrical circuits

Does the circuit work when...	Yes/No
There is not a complete loop	
There is no cell	
The switch is off	
The wires are attached to only one side of an object	




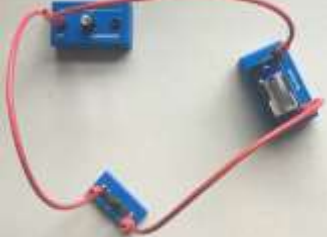
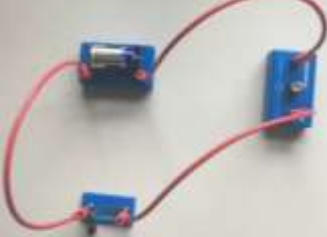
Fill in the gaps:

1. There must be at least one \_\_\_\_\_.
2. There must be a complete \_\_\_\_\_ for electricity to flow.

3. The \_\_\_\_\_ must be plugged into each object on one side and come out of the object on the other side.
4. The \_\_\_\_\_ must be closed to make it work.

**Activity 3: Why won't this circuit work?**

Use the rules from the previous activity to help you to explain why these circuits will not work.

1		
2		
3		
4		
5		
6	