Subject: Science

Level: Form 3 Physics

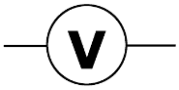
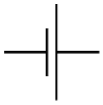
Topic: Electricity

Key Points:

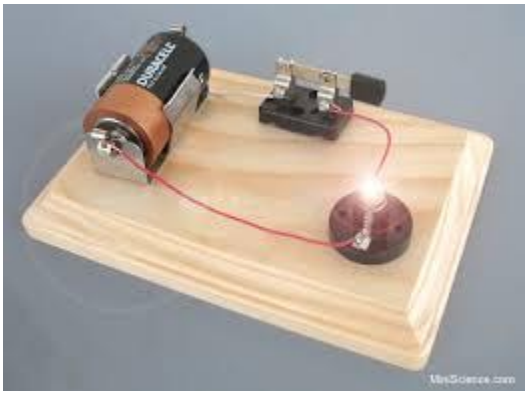
- A circuit is a closed path through which an electric current flow.
- Direction of conventional current flow is from the (+) terminal of the energy source to the (-), electrons actually move in opposite direction
- Basic circuit components include - cell, switch, load (eg. lamp).
- Cells supplies electrical energy and can be combined to form batteries.
- Current is measure in amperes (A) with an ammeter.

Activities

1. Identify the following symbols.

Symbol	Name
	
	
	
	
	
	

2. Using symbols ONLY **draw and label the parts of** the circuit in the space provided.

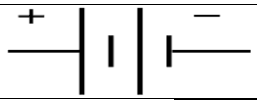
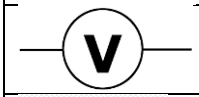
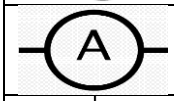
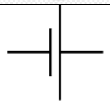
3. How to use an Ammeter (use the links provided and look at how to use an ammeter, in the videos).
https://www.youtube.com/watch?v=2tCLLPnGnPg

https://www.youtube.com/watch?v=6zAL4Rd_xMc – How to read an ammeter

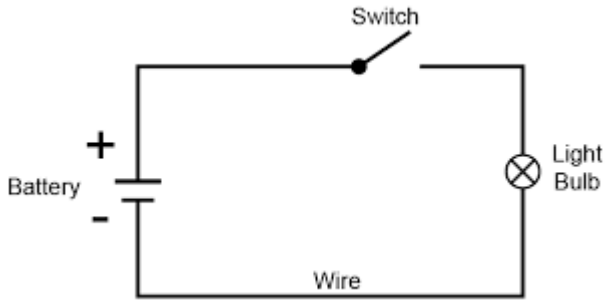
In the box to the right, draw an electric circuit consisting of: ✓ a battery (3 cells) connected as a source of voltage, ✓ two bulbs: Bulb 1 and Bulb 2 in parallel, ✓ an ammeter to read total current, across the external circuit.	

Answer key

1.

Symbol	Name
	Bulb
	Switch
	Battery
	Resistor
	Voltmeter
	Ammeter
	Cell

2.



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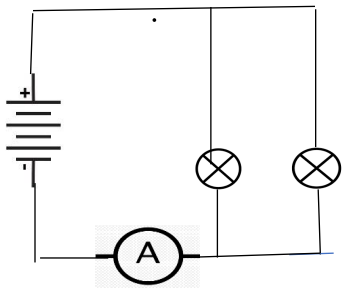
3.



References:

Mini Physics: Electricity circuits and symbols. (2020). Retrieved from https://www.miniphysics.com/ss-electric-circuits-and-symbols.html

Mini Science. Simple Circuit(2020). Retrieved from

https://www.miniscience.com/stem-projects-and-kits/simple-electric-circuit/

Learn Physics, (May 3, 2015). How to use an ammeter. Retrieved from https://youtu.be/2tCLLPnGnPg

Guide for school. (Jan 17, 2019). How to read and ammeter. Retrieved from https://youtu.be/6zAL4Rd_xMc