



NATURAL SCIENCES_ SENIOR PHASE_ MWAZVITA CHIKOPO_ 04-06-2021

TO: NATURAL SCIENCES TEACHERS/ LEARNERS AND PARENTS.

TOPIC: RESOURCES IN TEACHING NATURAL SCIENCES (ENERGY AND CHANGE):

MESSAGE OBJECTIVE(s):

- How to use educational resources to enhance conceptual understanding.

MESSAGE:

- There are a variety of methods teachers can use to help learners learn using the resources; the focus must be on learning not technology or a digital resource.

The following concepts can be taught using the videos referenced at the bottom of the page:

1. The basics of series and parallel circuits. How to determine which parts of a parallel circuit will or will not keep working when a gap is created in one of the paths.
2. Why bulbs in a parallel circuit are brighter than bulbs in a series circuit.
3. How series and parallel circuits are drawn using circuit diagrams, the rules about current and potential difference in series and parallel circuits.
4. How power sources (batteries) in series and parallel connections interact with appliances (light bulb).
5. What is electrical current? What are amps?
6. What is voltage and what does it do? Volts, coulombs, joules, power supplies.

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REFERENCE: (links to website documents)

- <https://youtu.be/IAWGn3sLSo>
- <https://youtu.be/DzFk4kT0fxs>
- <https://youtu.be/dCx-OVUn7Cw>
- <https://youtu.be/5uyJezQNSHw>
- <https://youtu.be/8qvJzrjwids>
- <https://youtu.be/TBt-kxYfync>