



## NATURAL SCIENCES\_ SENIOR PHASE\_ MWAZVITA CHIKOPO\_ 18-11-2022

### THEME: REBOOTING EDUCATION

TO: Teachers and Learners.

TOPIC: **“TEACHING THROUGH EXPERIMENTS”**.

#### MESSAGE OBJECTIVES:

- *Learning beyond classrooms is necessary to learn about the world and skills. Science experiments are a great way of learning not just about sciences but also about collaboration, experimentation, and teamwork.*

#### MESSAGE:

**Science experiments** are a type of scientific investigation that seeks to answer a question through observation and experimentation.

The term **“Scientific Experiment”** is generally used to mean an activity performed to test a hypothesis about how two or more variables interact. Some types of experiments: lab or field, true experiments, observational studies, and surveys.

#### Why should you teach students with science experiments?

- Teaching children science through practical experiments motivates their interest in the subject.
- Practical experiments are especially helpful for children who are not academically inclined because they allow them to learn about science in a way that they can process.
- Practical experiments are not only engaging, but they teach skills that will be necessary for future careers.
- Experiments help teach students how to be more observant and inquisitive. They learn how to ask questions, explore new avenues for research, and find new ways on how they can answer a question or solve a problem.
- Learners acquire the power of asking questions and being sceptical about their findings which will come in handy as they continue their STEM careers.
- Learners develop skills such as observation, recording data, drawing conclusions, making decisions, and solving problems.
- It provides hands-on experience to learners allowing them to grasp concepts in a way that is more understandable to through practical experience.

#### LINK TO THE NECT WEBSITE

Please visit: [www.nect.org.za/materials](http://www.nect.org.za/materials)

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