

A pop rocket experiment

Curriculum Links

Science Level 5 & 6

- With guidance, plan appropriate investigation types to answer questions or solve problems and use equipment, technologies and materials safely, identifying potential risks (VCSIS083).
- Decide which variables should be changed, measured and controlled in fair tests and accurately observe, measure and record data (VCSIS084).
- Compare data with predictions and use as evidence in developing explanations (VCSIS086).
- Solids, liquids and gases have different observable properties and behave in different ways (VCSSU076).

Learning Intention and Success Criteria

Learning Intention

To conduct an experiment exploring the effect of temperature on a chemical reaction.

Success Criteria

- ✓ Successfully follow a scientific method.
- ✓ Make a hypothesis.
- ✓ Complete a set amount of trials.
- ✓ Record all results.
- ✓ Compare and analysis data collected.

Equipment Required

- A pack of Alka-Seltzer tablets
- A film canister
- Safety glasses
- Water (hot and cold)
- Stop watch
- Pen or pencil
- BioLAB workbook

Career Pathways

Scientists around the world conduct experiments every day! They plan, follow methods and collect data to be analysed. The experiments may be conducted in laboratories, in engineering workshops or on a sporting field with athletes.

Scientific skills are valuable for all students to learn. The skills are not only present in the scientific world but also carry over to just about every other job as they all require some form of planning and review.