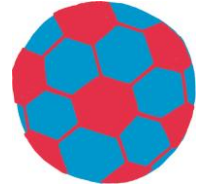


Bounce Engineers

Fair Testing



Curriculum Links

Level 7 Maths

- Calculate mean, median, mode and range for sets of data. Interpret these statistics in the context of data (VCMSP270)

Level 7-8 Science

- Collaboratively and individually plan and conduct a range of investigation types, including fieldwork and experiments, ensuring safety and ethical guidelines are followed (VCSIS108)
- Reflect on the method used to investigate a question or solve a problem, including evaluating the quality of the data collected, and identify improvements to the method (VCSIS112)

Learning Intention and Success Criteria

Learning intention

To design and conduct a fair test.

Success criteria

- ✓ Identify independent, dependent and controlled variables.
- ✓ Outline steps taken to conduct a fair test.
- ✓ Record results of a fair test.
- ✓ Draw conclusions about the effect of the independent variable on the dependent variable.

Instructions to Teachers

This activity has been developed to assist students understanding of fair testing in research. It is designed to clarify types of variables in an experiment. The task emphasises that a fair test must be designed to ensure any difference in measurement of the dependent variable can be attributed to the difference in the independent variable.

In this task students will:

- Choose an independent variable
- Identify controlled variables
- Design a fair test
- Conduct experiment and communicate results