



Australian Government



Nuclear-based science benefiting all Australians

First-hand investigation of ionising radiation

Student worksheet

Design and perform a first-hand investigation of ionising radiation

As a class, you will design an experiment to investigate ionising radiation.

Before you perform your experiment via videoconference, you will:

- Write an aim for your experiment
- Select equipment
- Write a hypothesis
- Design and write a method (including a diagram of the experimental set up)
- Draw up a table for collecting results (if appropriate)
- Your teacher may ask you to do some background research about ionising radiation

During the videoconference you will:

- Communicate the method to your ANSTO Education Officer
- Record your results
- Discuss the reliability, validity and accuracy of your experiment
- Discuss the real-life applications of your results

After the videoconference you will:

- Graph your results (if appropriate)
- Write a discussion of your results
- Write a conclusion for your experiment

**Experimental set up:**

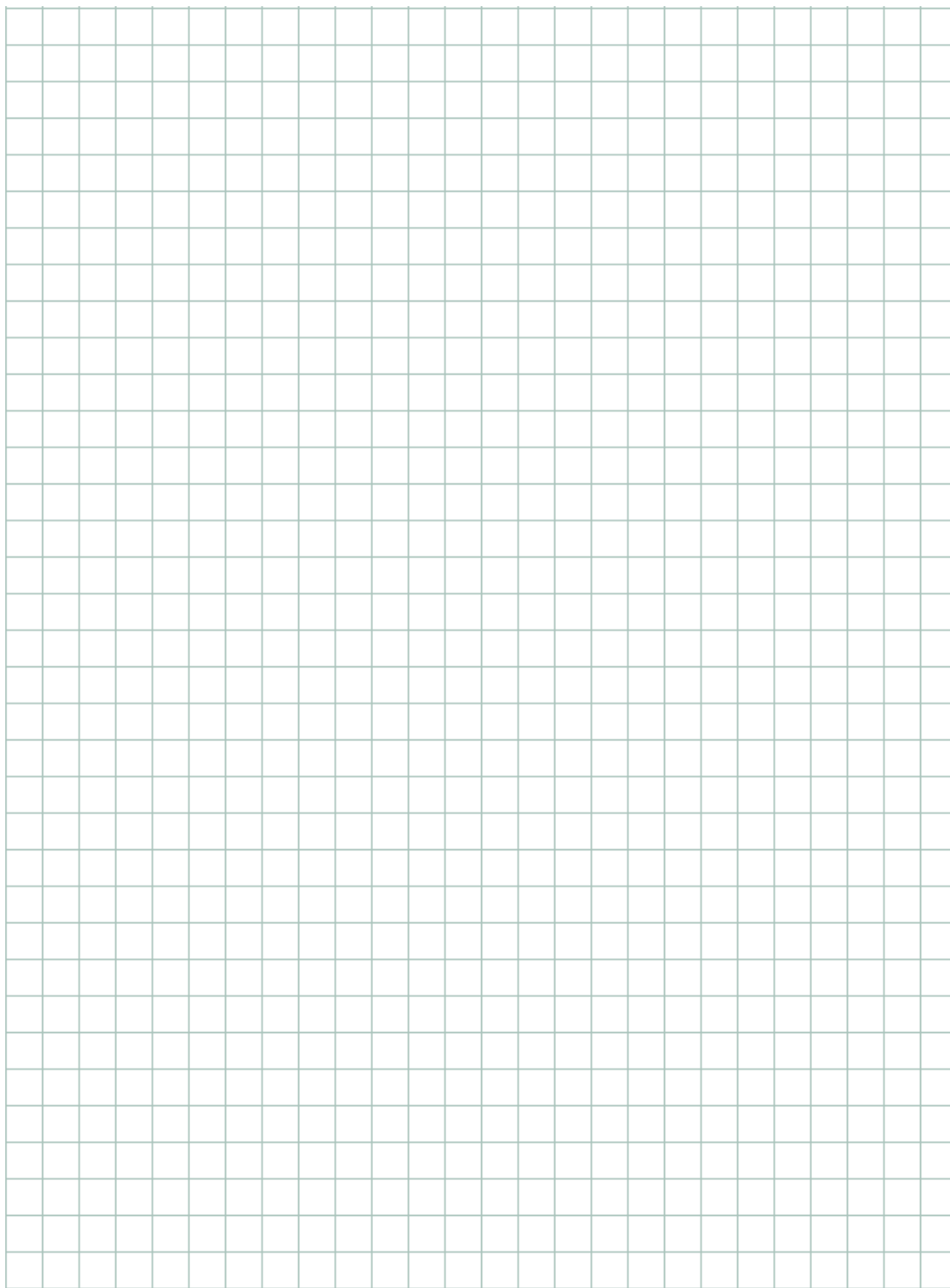
(Draw a labelled scientific diagram of your experiment)

**Results:**

(Record your results as data in a table, diagrams or as written observations)

**Results graph (if appropriate):**

(Draw your own graph to display your results. Make sure to label your graph and the axes)



**Conclusion:**

(Remember, a conclusion is an answer to the question in your aim)
