INVESTIGATING SCIENCE – YEAR 11
SCIENTIFIC REPORT TEMPLATE

TITLE: _____

1. INQUIRY QUESTION

What are you trying to find out?

_____

_____

2. HYPOTHESIS

What do you think the results of your investigation will be?

- *Testable statement*
- *Include independent and dependent variables*
- *State relationship between variables*

_____

_____

3. PLAN

Valid and reliable data

Independent variable *(What things in the experiment will be different each time you do the experiment? Include units):*

_____

_____

Dependent variable *(What are you measuring? Include units)*:

_____

Variables to be **controlled** *(What things will you keep the same each time you do the experiment?)*:

_____

_____

State how many times will you do the experiment to make sure your test is **reliable**?

_____

Identify what type of data will you be collecting (qualitative and/or quantitative)?

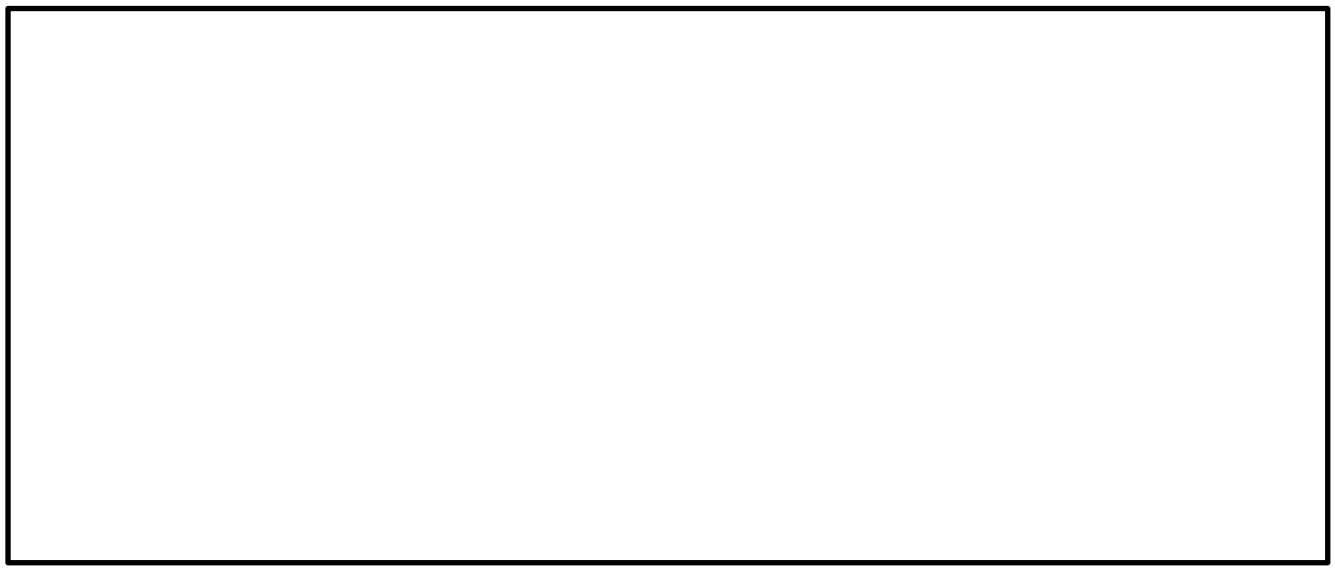
_____

MATERIALS/EQUIPMENT
List materials, be specific and include quantities

- _____
- _____
- _____
- _____
- _____

DIAGRAM OF SET-UP
Draw a scientific diagram of what your investigation will look like:

- *Pencil, ruler, labels and line drawing*



4. METHOD
List the steps you will follow to complete your investigation:
(Written in third person, past tense.)

1.

2.

3.

4.

5.

6.

7.

8.

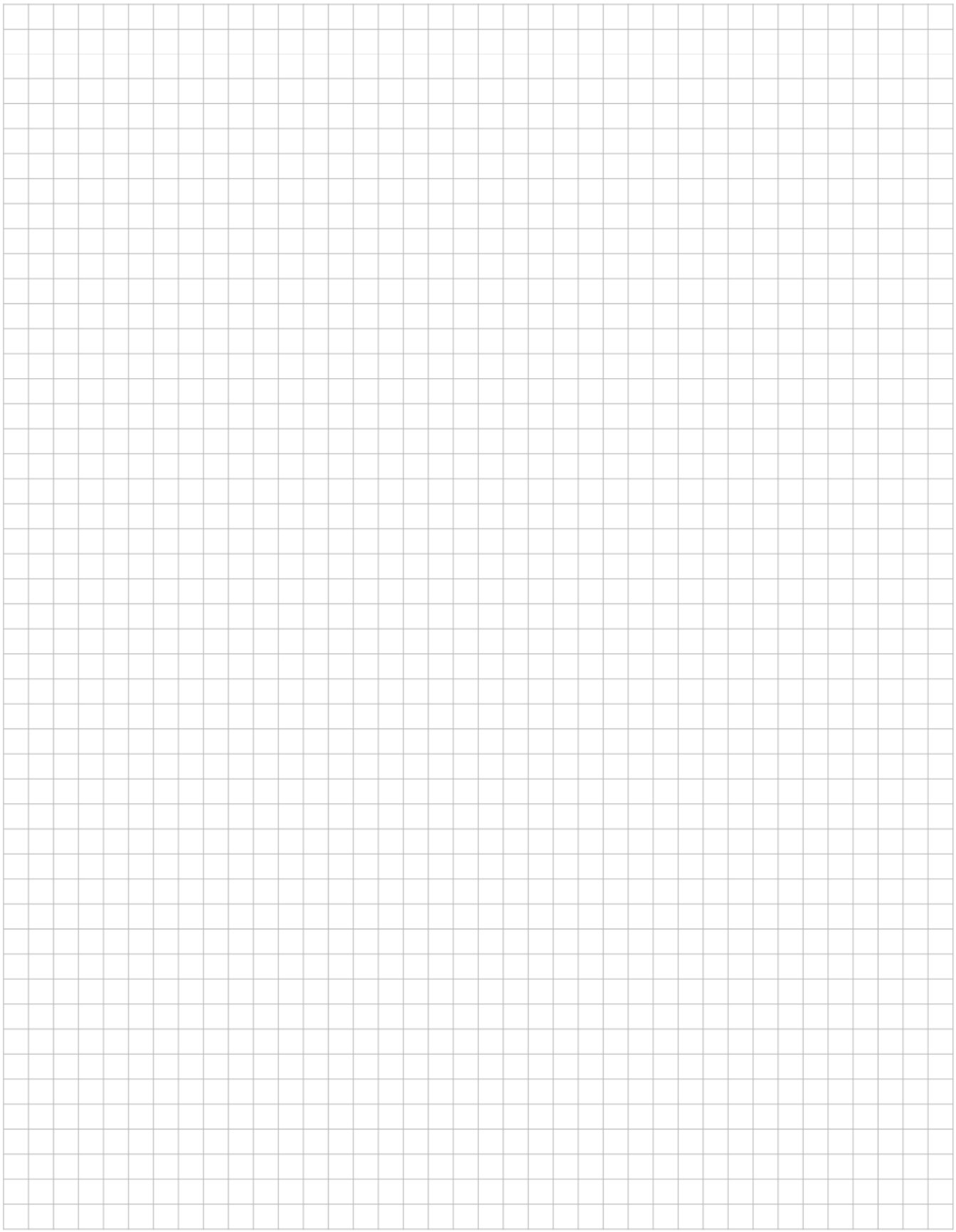
Risk Assessment
*Identify **risks** or **safety** concerns might be involved in the experiment and how you will overcome these?*

Risk	How risk will be mitigated

5. RESULTS

Draw a **table** to display your results
Independent variable on the left, dependent on the right, title, labels, units

Draw a **graph** to display your results
Title, labels on correct axis, scale, units, correct graph type



6. DISCUSSION:
Answer in full sentences.

a) Describe what happened in your experiment
What patterns or trends did you observe, use data to help explain

_____

_____

_____

_____

_____

_____

b) Identify any **problems** you experienced while you were carrying out the investigation?

_____

_____

_____

_____

c) How could you solve these problems to improve your experiment next time?

_____

_____

_____

_____

d) How could you make your experiment more **reliable** and **valid** *(Look back at your plan!)*

_____

_____

_____

_____

7. CONCLUSION:

What did you discover in relation to your hypothesis?
Was your hypothesis supported or rejected?

_____

_____

_____