

Name _____

Date _____

Name of Investigation _____

Hypothesis

If _____

then _____

(2)

Variables

Independent variable (Changed) _____

Dependent variable (Measured) _____

(2)

Prediction

I think that this will happen _____

Materials

(2)

Method

Explain what you are going to do, step by step, like a recipe that someone else could follow.

(2)

Controlled Variables

Things that were kept the same throughout the experiment.

These cannot be the same as the independent and dependent variables.

There are lots of controlled variables. Choose three that you think were the most important.

(3)

Results

These should be neatly recorded in a table.

Title of Table _____

Row Heading	Column heading						
Row Units	Column units eg. ml's, mm's, cm's, degrees C						

Row Heading – This should be the independent variable

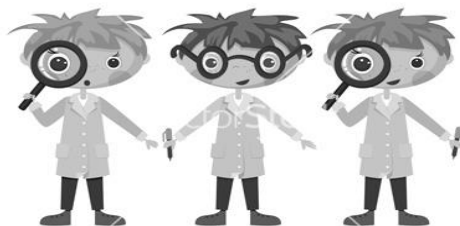
Column Heading – This should be the dependent variable

Observations

Anything that could not be recorded in the table but might be important to the results.

If it is too difficult to describe these extra observations in words, you may choose to draw a diagram

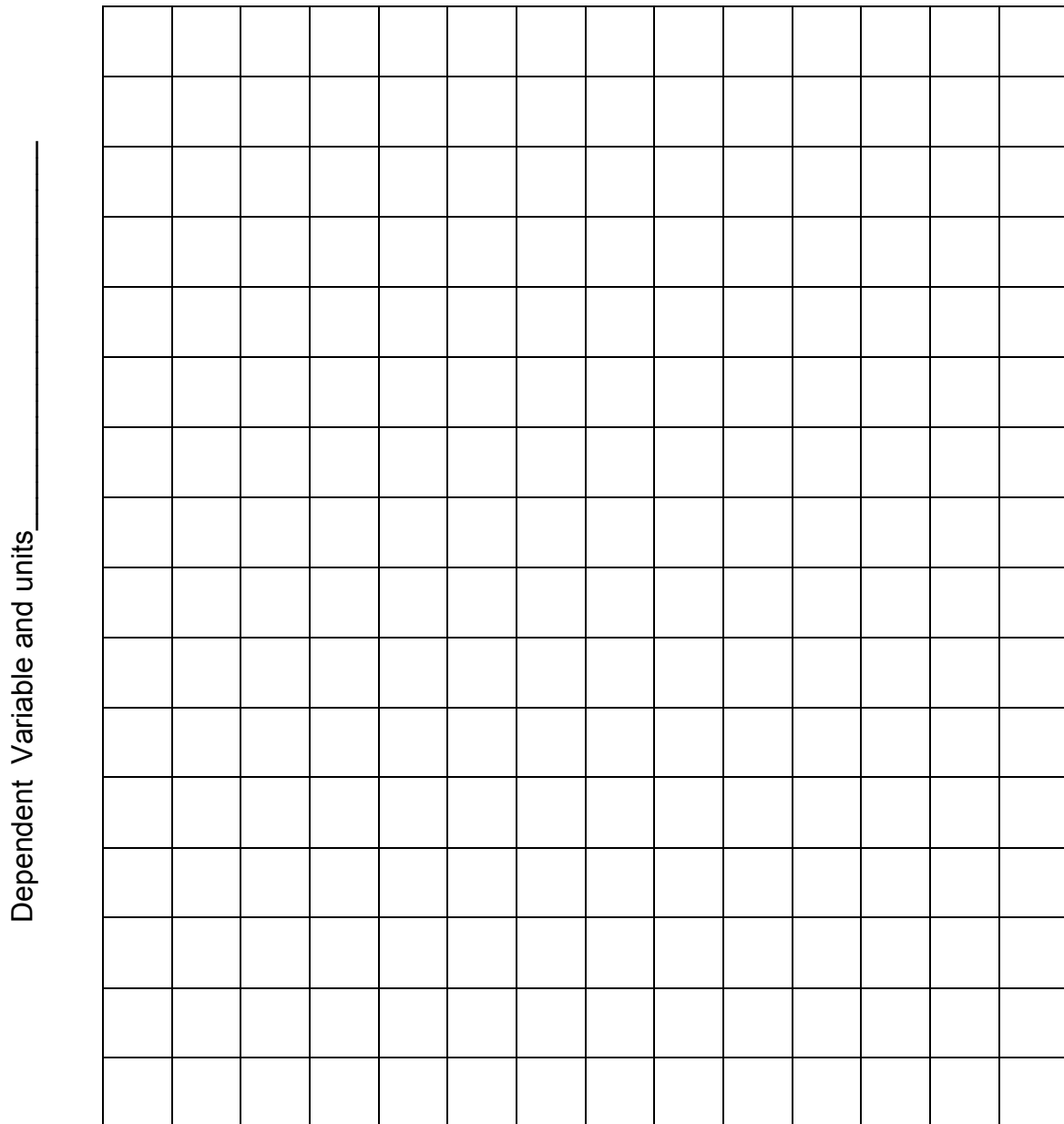
(1)



Graph

Put the results from your table into a graph.

Title of Graph _____



Independent Variable and Units _____

Discussion

What can you see from the graph about what happens to the dependent variable when the independent variable is changed?

(2)

Was your prediction correct? Why or why not?

(1)

Can you think of a scientific reason why the independent variable affected the dependent variable in this particular way? If you don't think you know, try and guess.

(2)

What were some difficulties you had when carrying out the experiment?

How would you change the experiment next time to avoid these difficulties?

(4)

The controlled variables help make your experiment a *valid* experiment.

Name one way you could have made the experiment more *accurate*.

This should be something different from the changes you described in the last question.

(1)

Conclusion

Read your hypothesis again. What did you learn about the variables, by conducting this experiment?

(1)

Total

/30