

Section 1

Hypothesis

H1 State a reasonable hypothesis (prediction).

H2 Explain hypothesis (prediction) using accurate science.

Diagram

D1 State some equipment.

D2 State all of the equipment needed.

D3 Draw a scientific diagram in pencil, with a ruler.

Variables

V1 Stated your independent variable.

V2 Stated your dependent variable.

V3 Stated 2 or more controlled variables.

V4 Explained how you have controlled these two variables.

Method

M1 Written a step by step method with most of the steps.

M2 Described in detail all of the steps, including how to record measurements.

M3 If I follow your method I will get accurate results.

M4 There is no spelling errors, or punctuation missing from your method.

M5 Your method explains why you will need to repeat the experiment.

Risk Assessment

R1 You have stated two risks and how to prevent them.

R2 You have stated what you will do if someone is hurt with these two risks (remedial actions).

Table

T1 Your results table has your variables as headings.

T2 Your results table includes appropriate units for all of your headings.

Section 2

Practical Skill

P1 You have demonstrated that you can measure accurately.

This means you are measuring to the nearest 0.1g in solids or the nearest 0.5ml in liquids.

Graph

G1 Your graph has a sensible x (across) axis, labelled with units.

G2 Your graph has a sensible y axis (up) with units.

G3 Your graph has it's points plotted in the right places in pencil.

G4 Your graph has a line of best fit, or a sentence saying there is no correlation if there is none.

Analysis

A1 You have stated wether your results supports your prediction of not.

A2 You have used two points of data (numbers) to describe how your results supports your prediction or not.

A3 You have referred to overall trend in your graph, and wether this supports or not your prediction.

Context

C1 You have stated a real life context where the results of this experiment apply.

C2 You have explained how the trend in your results would apply to this real life context.

Evaluation

E1 You have stated one source of error in your method/results. This cannot be human error.

E2 You have described how you could reduce this error if you repeated the experiment.

Section 1
Total

/18

Section 2
Total

/12

Practical total

/30

Section 1

Hypothesis

H1 State a reasonable hypothesis (prediction).
I think that when we increase the..... thewill.....

H2 Explain hypothesis (prediction) using accurate science.
This is because.....

Diagram

D1 State some equipment.

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D3 Draw a scientific diagram in pencil, with a ruler.

Variables

V1 Stated your independent variable.

My independent variable I changed was the.....

V2 Stated your dependent variable.

My dependent variable I measured was.....

V3 Stated 2 or more controlled variables.

To make it a fair test my controlled variables were.....

V4 Explained how you have controlled these two variables.

We made sure it was fair by.....

Method

M1 Written a step by step method with most of the steps.

First you must....

M2 Described in detail all of the steps, including how to record measurements.

We changed by.....

M3 If I follow your method I will get accurate results.

To measure accurately you must....

M4 There is no spelling errors, or punctuation missing from your method.

M5 Your method explains why you will need to repeat the experiment.

You will need to repeat the experiment because.....

Risk Assessment

R1 You have stated two risks and how to prevent them.

The risks are.....
To prevent these risks you must.....

R2 You have stated what you will do if someone is hurt with these two risks (remedial actions).

If someone if hurt you must.....

Table

T1 Your results table has your variables as headings.

T2 Your results table includes appropriate units for all of your headings.
cm/N/m/kg/kj etc

Section 2

Practical Skill

P1 You have demonstrated that you can measure accurately. This means you are measuring to the nearest 0.1g in solids or the nearest 0.5ml in liquids. Your teacher will decide whether or not you have achieved this, you do not need to write anything down.

Graph

G1 Your graph has a sensible x (across) axis, labelled with units.

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G4 Your graph has a line of best fit, or a sentence saying there is no correlation if there is none.

Analysis

A1 You have stated whether your results supports your prediction or not.

My results supports/do not support my prediction that.....

A2 You have used two points of data (numbers) to describe how your results supports your prediction or not.

I can see this because at..... my result was..... whilst/and atmy result was

A3 You have referred to overall trend in your graph, and whether this supports or not your prediction.

My graph shows that as increases/decreases(also) increases/decreases. This supports/does not support my prediction.

Context

C1 You have stated a real life context where the results of this experiment apply.

This experiment applies to the real world because.....

C2 You have explained how the trend in your results would apply to this real life context.

From my results I can see that..... this means that.....

Evaluation

E1 You have stated one source of error in your method/results. This cannot be human error.

A source of error that could have affected my results/measurement was...

E2 You have described how you could reduce this error if you repeated the experiment.

If I were to repeat the experiment I could reduce the error by.....

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The risks are.....

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Section 2

Practical Skill

P1 You have demonstrated that you can use equipment safely.

Graph

G1 Your graph has a sensible x (across) axis, labelled with units.

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G3 Your graph has it's points plotted in the right places in pencil.

Analysis

A1 You have stated wether your results supports your prediction of not.

My results supports/do not support my prediction that.....

Context

C1 You have stated a real life context where the results of this experiment apply.

This experiment applies to the real world because.....

Section 1
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/12

Section 2
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/6

Practical total

/18

Section 1

Hypothesis

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First you must....

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Method

M1 Written a step by step method with most of the steps.

First you must....

M2 Described in detail all of the steps, including how to record measurements.

We changed by.....

M3 If I follow your method I will get accurate results.

To measure accurately you must....

M4 There is no spelling errors, or punctuation missing from your method.

M5 Your method explains why you will need to repeat the experiment.

You will need to repeat the experiment because.....

Risk Assessment

R1 You have stated two risks and how to prevent them.

The risks are..... To prevent these risks you must.....

R2 You have stated what you will do if someone is hurt with these two risks (remedial actions).

If someone if hurt you must.....

Table

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Practical Skill

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Your teacher will decide whether or not you have achieved this, you do not need to write anything down.

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I can see this because at..... my result was..... whilst/and atmy result was

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My graph shows that as increases/decreases (also) increases/decreases. This supports/does not support my prediction.

Context

C1 You have stated a real life context where the results of this experiment apply.

This experiment applies to the real world because.....

C2 You have explained how the trend in your results would apply to this real life context.

From my results I can see that..... this means that.....

Evaluation

E1 You have stated one source of error in your method/results. This cannot be human error.

A source of error that could have affected my results/measurement was...

E2 You have described how you could reduce this error if you repeated the experiment.

If I were to repeat the experiment I could reduce the error by.....

Section 1
Total

/18

Section 2
Total

/12

Practical total

/30

Section 1

Sources

S1 Two relevant sources are identified. (If websites full URL needed).

S2 The usefulness of one source is commented on.

S3 A comparison between the usefulness of the two sources is made.

Hypothesis

H1 State a reasonable hypothesis (prediction).

H2 Explain hypothesis (prediction) using accurate science.

Variables

V1 Stated your independent variable.

V2 Stated your dependent variable.

V3 Stated 2 or more controlled variables.

V4 Explained how you have controlled these two variables.

V5 Explained how not controlling these variables could affect your investigation/results.

V6 Identified one of your variables that is difficult to measure accurately.

V7 Explained why this variable is difficult to measure accurately.

V8 Suggest how this variable could be measured more accurately.

Diagram

D1 State some equipment.

D2 State all of the equipment needed.

D3 Draw a simple scientific diagram with equipment labelled in ruler and pencil.

Method

M1 Written a step by step method with most of the steps.

M2 Described in detail all of the steps, including how to record measurements.

M3 If I follow your method I will get accurate results.

M4 Your Method includes a reference to the precision at which measurements must be made.

M5 Your method explains why you will need to repeat the experiment.

M6 You have clearly identified controls stated how they are monitored.

M7 There is no spelling errors, or punctuation missing from your method.

Risk Assessment

R1 You have identified any significant hazards.

R2 You have stated appropriate control measures for the hazards.

Table

T1 Your results table has your variables as headings.

T2 Your results table includes appropriate units for all of your headings.

Intervals

I1 You have stated the interval used for your independent variable. Including units.

I2 You have stated whether or not the interval was suitable with a simple explanation.

I3 You have stated whether or not the range was suitable with a detailed explanation.

Section 2

Practical Skill

P1 You have demonstrated that you can measure accurately.

This means you are measuring to the nearest 0.1g in solids or the nearest 0.5ml in liquids.

Your teacher will decide whether or not you have achieved this, you do not need to write anything down.

Graph

G1 Your graph has a sensible x (across) axis, labelled with units.

G2 Your graph has a sensible y axis (up) with units.

G3 Your graph has its points plotted in the right places to within 1mm in pencil.

G4 Your graph has a suitable line of best fit, or a sentence saying there is no correlation if there is none.

Analysis

A1 You have stated whether your results supports your prediction of not.

A2 You have used two points of data (numbers) to describe how your results supports your prediction or not.

A3 You have referred to overall trend in your graph, and whether this supports or not your prediction.

Evaluation

E1 You have correctly identified any anomalous results or stated that you have no anomalous results.

E2 You have identified whether you needed to repeat any results.

E3 You have stated one source of random error in your method/results. This cannot be human error.

E4 You have stated one source of systematic error in your method/results. This cannot be human error.

E5 You have stated how these errors can affect your actual results (numbers)

E6 You have described how you could reduce these errors if you repeated the experiment.

Looking at another Group's Results

L1 You have compared your results (overall trend/pattern) with another group's results.

L2 You have included data (numbers) in your comparison.

L3 You have stated why we compare our results with other groups (reproducibility, pattern, check)

Context

C1 You have stated a real life context where the results of this experiment apply.

C2 You have explained how the trend in your results apply to this real life context.

C3 You can state how your results can be used in the context.

Section 1
Total

/30

Section 2
Total

/20

Practical
total

/50