Investigation template

Student name:	-	
Group members:		
Task title:		
QUESTIONING AND PREDICTIN	G	
State the variables for this inves	tigation.	
What I will change	What I will measure	What I will keep the same
(Independent variable)	(Dependent variable)	(Controlled variables)
Write the question to be investi	gated.	
Write a prediction and explain v	vhy you think this will happen.	

PLANNING AND CONDUCTING

	t required for the investigation.
Doscribo the possi	ible safety risks in this investigation and suggest how they can be managed or controlled.
Describe the possi	ible safety risks in this investigation and suggest now they can be managed or controlled.

Vrite the method for this investigation. Include how the variables will be changed, measured and controlled.						
w a labelled	diagram of the	equipment se	t-up.			

able title:	 	 	

PROCESSING DATA

Graph th	ne results of th	he investigation.	Label each of the	axes and include	appropriate	units of measurement.
Grupii ti	ic results of the	ne mvestigation.	Laber Cacif of the	ancs and include	appropriate	annes of fineasarchieffe.

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ANALYSING DATA
Describe the relationships or patterns in the results.
Explain the relationships or patterns in the results using science ideas.
EVALUATING
Describe how the investigation could be improved.

Marking key		
Description		Marks
Questioning and predicting		
Correctly identifies the variable to be changed (independent variable).		1
Correctly identifies the variable to be measured (dependent variable).		1
Correctly identifies at least two controlled variables.		1–2
	Subtotal	4
Writes a question that can be investigated and is reasonable.		1
	Subtotal	1
Writes a prediction that describes a relationship between the dependent vathe independent variable; and matches the question posed above.	riable and	1–2
Provides a reasonable explanation for choosing this prediction.		1
	Subtotal	3
Planning and conducting		
Selects the appropriate equipment required to conduct the investigation.		1–2
	Subtotal	2
dentifies safety risks associated with the investigation.		1–2
Suggests ways to minimise the risks.		1–2
Suggests ways to minimise the risks.	Culatatal	
	Subtotal	4
Provides a method with a logical sequence of steps.		1–2
Provides a method which contains sufficient detail to allow replication. Detail includes: how the independent variable is changed how the dependent variable is measured how other variables are controlled plans for repeat trials/replicates.		1–4
	Subtotal	6
Draws a clear diagram that includes: equipment shown correctly set up correct labels.		1–2
	Subtotal	2
Draws a table that includes: descriptive title containing dependent and independent variables information relevant to the investigation appropriate column headings with units of measurement (if applicable)		1–3
The second	Subtotal	3

Processing data	
Graphs data collected from the investigation (if applicable):	
provides appropriate graph title	
labels axes correctly	1–5
includes appropriate units of measurement	1-3
plots data correctly	
draws the appropriate type of graph.	
Subtotal	5
Analysing data	
Describes relationships or trends in the results.	1–2
Refers to specific data when describing relationships or trends.	1
Compares the results to their prediction.	1
Subtotal	4
Explains the relationships or trends in the results using science ideas.	1–2
Subtotal	2
Evaluating	
Identifies difficulties experienced when conducting the investigation.	
May include reference to, but not limited to: quality of the data, correct use of equipment, choice of equipment.	1–2
Makes suggestions to overcome the difficulties described, including ways to improve the quality of the data.	1–2
Subtotal	4
Total	40