Investigation template

Student name:			
Group members:			
Task title:			
QUESTIONING AND PREDICTIN	G		
State the variables for this inves	stigation.		
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	igated.		
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			_
			-
			_
Write a prediction and explain v	why you think this will happen.		
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PLANNING AND CONDUCTING

' '	t required for the investiga	 	

			d and controlled.		
v a labelled	diagram of the e	equipment set-up.			

Write the method for this investigation.

Describe your observations and record your results in a table.	
Table title:	

PROCESSIN	G DATA														
Graph the re	esults of	f the ii	nvesti	gation	. Label	each (of the	axes aı	nd incl	ude ap	propr	iate ur	nits of	measu	rement.
Graph title:															
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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.	
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 variable and the independent variable; and matches the question posed above.	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
Identifies safety risks associated with the investigation.	1–2
Suggests ways to minimise the risks.	1–2
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:	
X how the independent variable is changed	1–4
X how the dependent variable is measured	
x how other variables are controlledx plans for repeat trials/replicates.	
Subtotal	<u> </u>
Subtotal	6
Draws a clear diagram that includes: equipment shown correctly set up correct labels.	1–2
	2
Subtotal	2
Draws a table that includes: x descriptive title containing dependent and independent variables x information relevant to the investigation	1–3
X appropriate column headings with units of measurement (if applicable)	
Subtotal	3

Processing data	
Graphs data collected from the investigation (if applicable):	
x provides appropriate graph title	
x labels axes correctly	1–5
x includes appropriate units of measurement	1-5
x plots data correctly	
x 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	1–2
equipment, choice of equipment.	
Makes suggestions to overcome the difficulties described, including ways to improve	1–2
the quality of the data.	
Subtotal	4
Total	40