YEAR 10 PROJECT

NAME:

INQUIRY QUESTION:

TASK

You will need to design, conduct, analyse and present your own practical investigation. You are required to conduct your own research into your topic to inform your investigation and hypothesis. A scaffold will be provided to help you develop your ideas. You will need to use your information from the scaffold provided to write up a scientific report. You will need to submit the completed scaffold and the written report at the same time. This must be a quantitative investigation which means you must collect measurements, not observations.

PLAN

Identify the aim of this investigation.

Identify an appropriate hypothesis for this investigation.

Identify the variables in this investigation:

Independent – _____

Dependent – _____

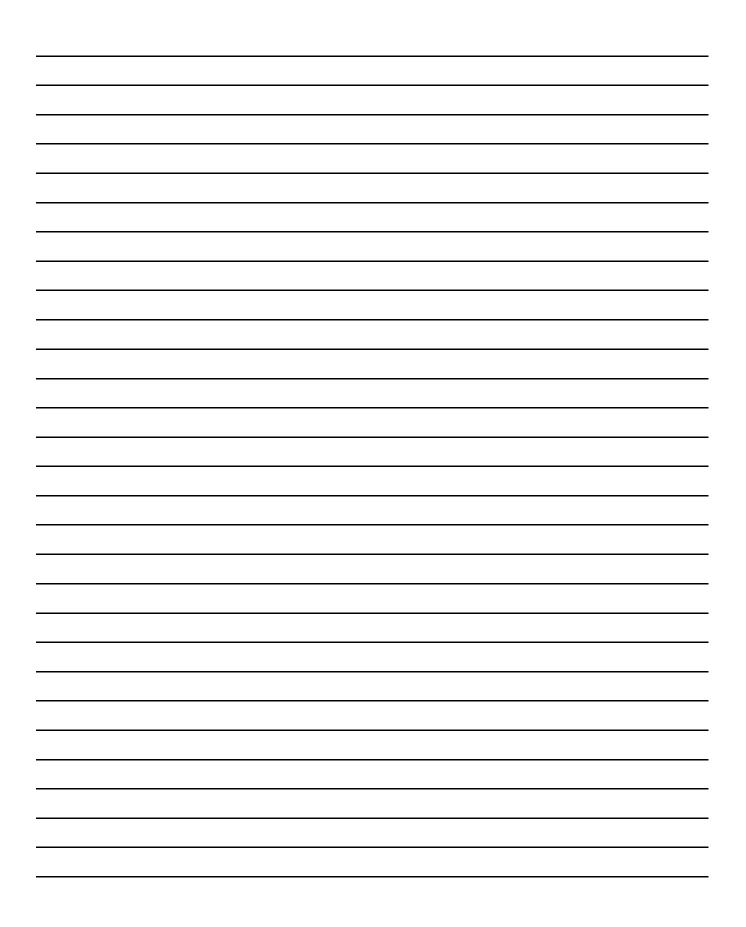
Controlled (at least three) – _____

Complete the table for the risk assessment.

Risk	Strategy to reduce the risk

RESEARCH

Conduct your own research to gather information relating to the investigation. Questions you should consider; what are the scientific concepts involved, how do these concepts work, how are these concepts relevant in our daily lives.



EQUIPMENT

In the space below, make a list of all the equipment that you will need for this investigation and what quantities you will need e.g. 1 pair of scissors.

PROCEDURE

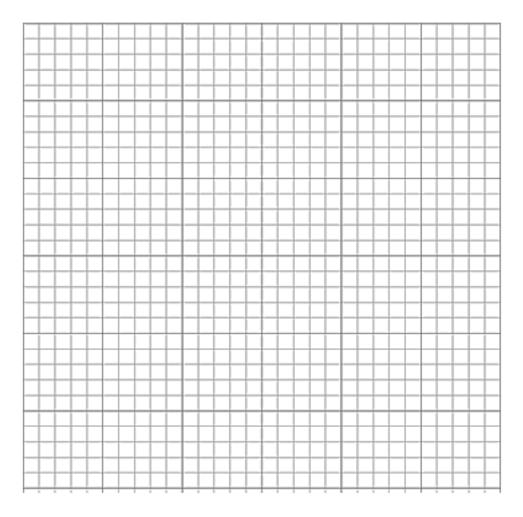
Use the space provided below to write the procedure you will use to conduct the experiment.

RESULTS

In the space below, draw an appropriate table for your data and enter your results

GRAPH

Use your data to plot a graph of the independent variable against the dependent variable.



DISCUSSION

What was the main trend from the data you collected?

Explain why that trend may have occurred. You should support it with evidence from your research.

Describe how you would improve the ACCURACY of the investigation. Describe how you would improve the RELIABILITY of the investigation.

Identify a new question or aim created by the data that you collected.

CONCLUSION

Describe how the information you gathered supports or opposes your aim and your hypothesis.

REPORT

You need to write up your information as a formal scientific report. Some parts of the information can be directly copied across while other parts will need to be re-written into the appropriate format.

Your report should have the following structure:

Title

• The title should relate to your inquiry question

Introduction

- Use the information from your research to write a few paragraphs that explain the scientific concepts involved and how they work in your experiment.
- You should include a diagram to assist in explaining your ideas.
- Include your aim and hypothesis at the end of your introduction.

Method

- Use the procedure from the scaffold which you used to complete the investigation.
- You will need to re-write the paragraph so that it is past tense and is impersonal (not "I" or "we")
- The method needs to be written as a paragraph.
- Include your equipment in your method e.g. 50mL of water was poured into a 250mL beaker

Results

- Copy the results table you created into your report.
- Make sure each column is correctly labelled and has units at the top
- Copy the graph you created into your report.
- Make sure that it has a title, both axes are labelled with units and each axes is correctly scaled.
- Make sure that you are using the correct type of graph for your data.

Discussion

- Use your responses from the questions to explain:
 - o The trends or patterns in your results
 - o Why those trends or patterns may have occurred
 - How you would improve the investigation
- Write your conclusion as a paragraph using your response from the conclusion section

Reference list

- You will need to include a reference list.
- You should use multiple sources of information.
- All references must be referenced appropriately. We suggest using referencing sites such as citethisforme.com

MARKING CRITERIA

SCAFFOLD

The aim is appropriate for the investigation0 - 1The hypothesis is appropriate for the investigation0 - 1Correct independent variable0 - 1Correct dependent variables0 - 1 - 2Identifies two appropriate risks in the investigation0 - 1Identifies one appropriate strategy for each risk0 - 1 - 2Identifies their topic0 - 1Describes the scientific concepts involved0 - 1 - 2Explains how the scientific concepts work0 - 1 - 2 - 3Describes the relevance of the investigation0 - 1RESEARCH/8Results are entered neatly0 - 1Results are entered correctly0 - 1Independent variable on x-axis and dependent variable on y-axis0 - 1Both axes of the graph are labelled and have units0 - 1Independent variable on x-axis and dependent variable on y-axis0 - 1Both axes of the graph are appropriately scaled0 - 10 - 10 - 1Provides a correct lescription of how to make the method more accurate0 - 1 - 2 - 3Provides a correct description of how to make the metho	Criteria	Mark
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,, , , , , , , , , , , , , , , , , , ,	The conclusion describes the results in terms of aim	0-1
ANALYSIS /11	The conclusion describes the results in terms of hypothesis	0-1
	ANALYSIS	/11
SUB-TOTAL /39	SUB-TOTAL	/39

REPORT

Criteria	Mark
Title is relevant	0-1
Introduction is written with sentences and paragraphs and is written in impersonal	0 - 1 - 2
third person (no "I" or "me" or "we")	
Introduction clearly explains the scientific concepts involved	0 - 1 - 2 - 3
Introduction includes the aim and the hypothesis	0 - 1
The method is written in past tense and is impersonal	0 - 1
The method contains all the necessary steps	0 - 1
The equipment is included in the method with all the necessary equipment and	0-1
quantities	
The results table is correctly presented	0 - 1 - 2
The graph is correctly presented (title, scale, labels, units, axes correct way, type)	0 - 1 - 2 - 3
(1 – 2 mistakes = 2 marks, 3 – 4 mistakes = 1 mark, 5 – 6 mistakes = 0 marks)	
The main trend is identified	0-1
The proposed reason for the trend is explained in terms of cause and effect	0 - 1 - 2
An improvement to the investigation is explained	0 - 1 - 2 - 3
The conclusion addresses the aim and hypothesis	0 - 1 - 2
Reference list included with correct referencing	0 - 1 - 2
Appropriate terminology and language are used for the purpose and audience of the	0-1-2
presentation.	
SUB-TOTAL	/26

BREAKDOWN	MARKS
Scaffold	/39
Report	/26
TOTAL	/65

LIMITED	BASIC	SOUND	HIGH	OUTSTANDING
0 - 16	17 – 32	33 – 48	49 – 58	59 – 65

Feedback:

Richmond River High School Library Referencing Guide

Referencing

A reference list is a list of texts quoted from or referred to in to in an assignment. A bibliography is similar but contains additional works relating to the topic that have not been cited in the assignment.

There are several ways to compile a reference list. The following method, based on the Harvard System, is widely used. Pay close attention to the setting out and punctuation as shown below. Check with your teacher for their specific requirements. You may be penalised if you do not follow their preferred format.

- Arrange references in alphabetical order by author.
- If there is no author, the title of the book or article replaces it.
- Double space entries and indent the second and any subsequent lines of a reference.
- Underlining may replace italics if italicising is not possible.

A book with one author

Name & initials of author Year Name of book in italics Edition (if not 1st) Publisher Place of Publication eg. Dixon, J. 1993, *How to be a successful student*, Penguin Books, Ringwood.

A book with more than one author (authors' names are listed in the order in which they appear on the title page)All authors' names & initialsYearName of book in italicsEdition (if not 1st)PublisherPlace of publicationeg. Liberti, A. M. & Bourbon, F. 1996, Splendours of the Roman World, Thames & Hudson, London.

A book with no author

Name of book in italics	Year	Edition (if not 1 st)	Publisher	Place of Publication			
eg. Who's Who in Australia, 1998, 34 th edn, Information Australia Group, Melbourne							

A book with an editor

Name & initials of	(ed.) or	Year	Name of book in	Edition (if not	Publisher	Place of		
editor(s)	(eds.)		italics	1 st)		Publication		

eg. Harvey, J. (ed.) 2002, Water pollution, 3rd edn, Penguin Books, Ringwood.

Chapter or story by named author in an edited book or anthology (note lower case lettering for chapter title)

					0/ \		0	1
Author of chapter	Year	Chapter title in ' '	In	Name of	Editor(s)	Publisher	Place of	Page
Name first then		marks		book	Initials then		Publication	nos
initials				in italics	name			

eg. Alexander, I. 2000, 'The post-war city', in *The Australian Metropolis: A Planning History*, eds S. Hammnett & R. Freestone, Allen & Unwin, St Leonards, pp 98-112.

Journal/Magazine/Newspaper articles with no named author (note lower case lettering for title of article)

Title of article in '' marksYearJournal/Newspaper in italicsVol. no.Issue no. or DatePage nos'Voters lose their trust in politicians' 2000, Weekend Australian, 11-12 November, p.20.

Journal/Magazine/Newspaper articles by named author (note lower case lettering for title of article)

Name & initials of	Year	Title of article in ' '	Title of publication in	Vol.	lssue no. or	Page	
author(s)		marks	italics	no.	Date	nos	

eg. Burns, S. 1989, 'There's more than one way to learn', Australian Wellbeing, Vol 6, No 33, October, pp 42-44.

Encyclopedia articles

Title of article in '	Year	in	Title of encyclopaedia in	Edition	Vol.	Publisher	Place of	Page
' marks			italics		no.		Publication	nos

eg. 'Flatworms: phylum platyhelminthes' 1992, in *The New Encyclopedia Britannica: Macropaedia*, 15th edn, vol. 19, Encyclopedia Britannica International, Chicago, pp. 295-30.

Film/Video/Television program

Title of recording in	motion picture/video recording in ()	Year Publisher Place of publication			
italics	brackets				
	Note: TV programs are identified as video	For TV program give date and transmission			
	recordings	details			

eg. South American wetland (video recording) 2000, ABC, Sydney.

Article on CD-Rom

Title of article in ''	Year	Title of CD-ROM in	[CD-ROM] in square	Publisher	Place of			
marks		italics	brackets		Publication			
og "Englige" 1004 Ugbitate of rantiles [CD DOM] Crunch Madia New York								

eg. 'Snakes', 1994, Habitats of reptiles [CD-ROM], Crunch Media, New York.

Interviews

bei	0	Month & year of	Title of interview in	Interviewed by	Interviewer's name	Type of interview in square brackets e.g.	Place of interview
inte	erviewed &	interview	italics			tape recording,	
init	ials					transcript, video	
						recording	

eg. Berger, P. August 2002, *Teaching in L.A.,* Interviewed by J. Seccombe [Transcript of interview], Melbourne Conference Centre.

E-mail

Author's name & initials	Year	email	Day and month of email	E-mail address				
Saville, A. 2007, email, 24 April, <asaville@rockets.com.au></asaville@rockets.com.au>								

World Wide Web--complete document or web site (note: n.d. indicates there is no publication date given)

Author(s)/Editor(s) or	Date	Title in	[online] in	Publisher or	Available:	[Date
body primarily	published or	italics	square	organization	<url></url>	accessed] in
responsible for work	last updated.		brackets	responsible for		square
				site		brackets

eg. Longmore, R. n.d., *Frogs of the Garden* [online], Australian National Botanic Gardens. Available: http://155.187.10.12/projects/frogs/anbg-frogs.html [Accessed 7 August, 2007].

World Wide Web-document, article or page which form part of a larger document or web site

Author(s)/Editor	(s) Date	Article/Section	Title of	[online]	Publisher or	Available:	[Date
or body primaril	y published	in ' ' marks	complete		organization	<url></url>	accessed]
responsible for	or last		works in		responsible		
work	updated.		italics		for site		

eg. Department for Environment and Heritage 27 July 2000, 'Catchment management', *Water* [online], Government of South Australia. Available: <http://www.environment.sa.gov.au/water/trading.html> [Accessed 19 November 2007].