

Mathematics



Personal Investigation Diary

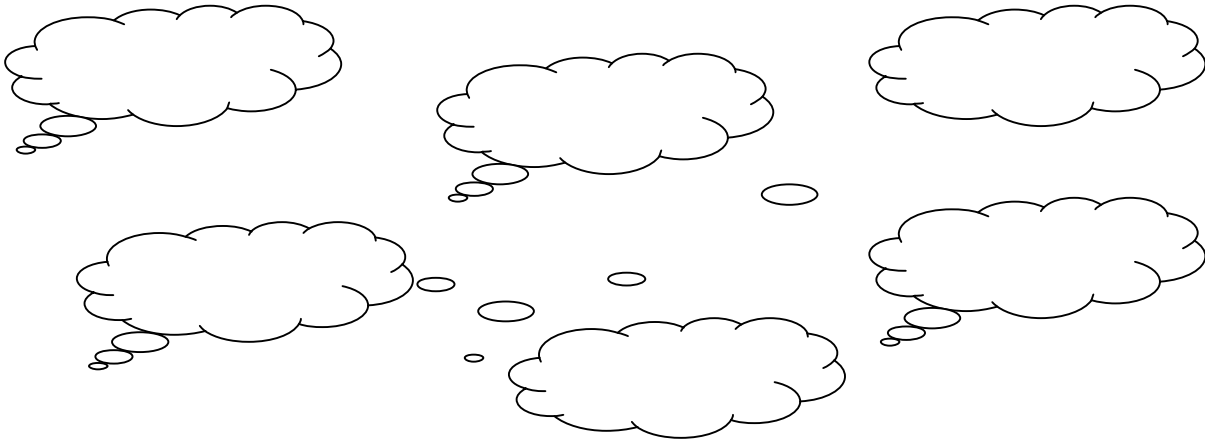
Name: _____

Year: _____ 9 _____ Level: _____

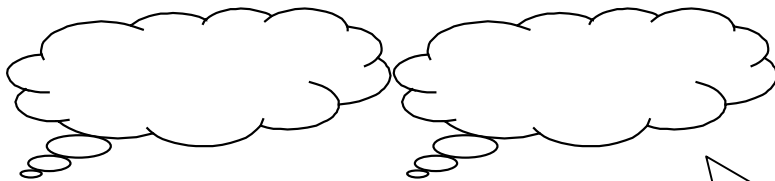
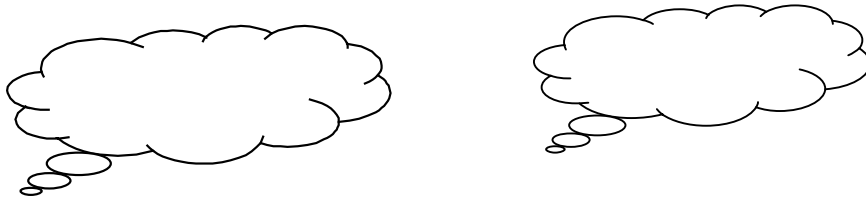
Teachers Name: _____

Date: _____

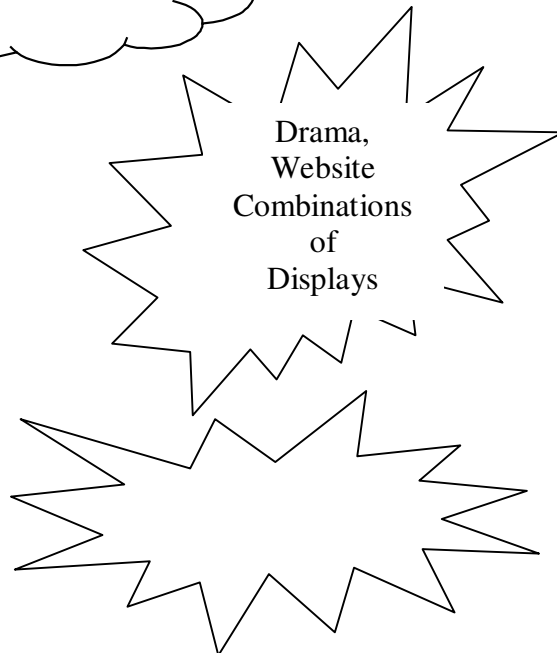
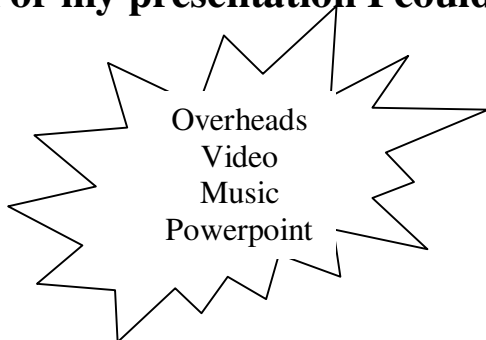
Past Investigation topics



For my investigation I could



For my presentation I could



Starting My Investigation

This is the third investigation you will do and it needs to be your best so far. The expected standard is much higher and there have been many changes in the use of technology since you started Year 7 Mathematics.

Think about all the projects you have done so far and write down the titles below.

Year 7 _____

Year 8 _____

Think about the things you have learnt about maths, and then about your presentation of personal investigation projects.

This **investigation** will be of a high quality. Your **presentation** will be of a high quality.

The criteria for assessment are listed below.

Component

Initial Planning Due: _____

Mid-investigation Assessment Due: _____

Investigation Diary

Originality and Creativity

The use of Technology **in** the investigation

Your final presentation to your class

Mathematical Content and your demonstrated understanding of this in your formal presentation to the class and your final project documents

Mark

5

5

10

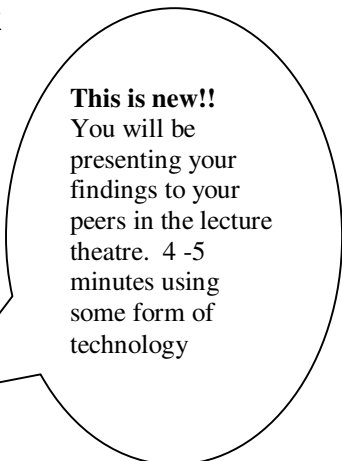
10

10

20

40

100



This is new!!
You will be presenting your findings to your peers in the lecture theatre. 4 -5 minutes using some form of technology

On the back of this page is space to develop some ideas for your project.

My Initial Plan

Date: _____

- The name of my investigation will be:

- The question I am trying to answer is:

- The technology I plan to use in my investigation includes:

- My investigation will be presented using (tick any of the following)
 - * word processing
 - * a power point presentation
 - * a model with accompanying word processed information
- Where I could find information and ideas for my investigation:

The Key dates for my investigation are:

I must have my initial plan ready by _____

My teacher will be checking my initial plan on _____

My mid investigation progress check will be on _____

I plan to have most of my investigation completed by _____

I must have my investigation ready to hand in on Monday, May 17

Planning my investigation

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
HOLIDAY						
HOLIDAY						
Examinations						

Getting Started with my Investigation

Date: _____

Day

Complete this paragraph by explaining what you did today

Today I started my investigation: _____

In this paragraph write about how you are feeling about your investigation today. What worked out well? What problems or difficulties did you have? How did you solve any difficulties you may have experienced?

What I plane to do next:

Next time I work on my investigation I am going to _____

Time spent on my investigation today: _____

Signature _____ Parent's signature _____

Making Progress with my Investigation

Date: _____

Day

What I did on my investigation today:

Today I _____ I _____

How am I feeling about my investigation today?

Today I am feeling _____

What I will do next:

Next time I work on my investigation I am going to _____

Time spent on my investigation today: _____

Signature _____ Parent's signature _____

INSERT AS MANY PROGRESS PAGES AS NEEDED HERE

Finishing my investigation

Date: _____

Day

Today I finished my investigation!:

I _____

The conclusion I reached is:

Time spent on my investigation today _____

Total time spent on my investigation _____

Signature _____

Parent's comment _____

Parent's signature _____

Personal Reflection on the Investigation

The Mathematics I learned during the investigation

Difficulties I encountered during my investigation and how I solved them.

What I learned about myself and my learning in Mathematics

What I would do differently if I was starting to do this investigation again.

Maths Investigation Summary

These are the resources I used in my investigation:

These people helped me with my investigation

Who Helped

How They Helped Me

<hr/>	<hr/>
<hr/>	<hr/>
<hr/>	<hr/>
<hr/>	<hr/>

My Assessment of my Investigation

Low Medium High

The effort I made	<hr/>
The Time I spent	<hr/>
The amount of help I received	<hr/>
The quality of my diary	<hr/>
The maths content of my investigation	<hr/>
My use of technology	<hr/>
The presentation of my investigation	<hr/>
The originality of my investigation	<hr/>

Initial Plan Check List

The date my teacher will check my plan is _____

The investigation topic is appropriate

The plan for presenting the investigation is suitable

The technology to be used is appropriate and accessible

Key dates are complete and appropriate

Planning for term 2 is appropriate

The sample page diary has been discussed and understood

E	A	P	L	D

E = exceed expectation, A = achieved expectation, P = partially achieved, L = limited achievement, D = having difficulties

Your grade for planning of your investigation is

E	A	P	L	D
----------	----------	----------	----------	----------

Your mark for planning your investigation is _____ /10

Comments and suggestions:

Teacher's signature: _____

Date: _____

Mid Investigation Assessment Checklist

The date for my mid investigation assessment check is _____

Diary entries are complete and detailed

There is evidence that the investigation is progressing at a rate consistent with the initial plan

A suitable mathematical component is evident in the investigation

Some creativity and originality is evident

Appropriate use of technology has been demonstrated

E	A	P	L	D

Your grade for planning of your investigation is

E	A	P	L	D

Your mark for planning your investigation is _____ /10

Comments and suggestions:

Teacher's signature: _____

Date: _____

Final Evaluation

Mathematics Personal Interest Project

MARKING CRITERIA

Your teacher will be looking primarily for evidence of originality, mathematical content and understanding appropriate to the year level in question and whether the investigation is by an individual or group

Some of the factors considered include:

Originality

- To what extent is the report copied from one or more references?
- What is the evidence for the student(s) being actively involved in research for the investigation
- Does a model, if included, really enhance the entry and demonstrate the student's originality and understanding of the project?

Mathematical content and understanding

- Evidence of appropriate use of mathematical terms, graphs, tables, diagrams, formulae, estimation, measurement, problem solving, calculation etc as relevant to the investigation's aims
- Evidence that the project is an integrated piece of work (especially in group investigations)
- Are the conclusions reached logical and supported by the mathematics used? So they suggest further investigations and, if so, to what extent has the student identified these?
- Mathematical accuracy

Communication

- How clearly are the aims of the project stated and its conclusions explained?
- How thoroughly are reference sources (including Internet sources) listed?
- Has the student adequately acknowledged help given by teacher, parents and friends?

Presentation

- How well is the project organized and presented?
- Does it have visual impact, neatness and robustness?
- How well you made use of available technology to present your project report to your peers
- How well your oral report is delivered to your peers

Final Evaluation

Component	Mark
Initial Planning	/5
Mid-investigation Assessment	/5
Investigation Diary	/10
Originality and Creativity	/10
The use of Technology in the investigation	/10
Your final presentation to your class	
Peer Assessment	/10
Teacher Assessment	/10
TOTAL	/20
Mathematical Content and your demonstrated Understanding of this in your formal presentation To the class and y our final project documents	/40
TOTAL	/100

Comment:

Signature: _____ **Date:** _____

