

iMaths 6 Investigation Plan

Student's name..... Due date.....

My group.....

Now that I have read through the Investigation, I am going to make a plan that should help me understand this Investigation.

Name of Investigation: _____

I understand that this Investigation is asking me to:

This Investigation might present some challenges. I may need to solve these problems in order to complete this Investigation:

I think these Topics are really important to this Investigation:

<u>Topic</u>	<u>Purpose in this Investigation.</u>
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1 _____	_____
2 _____	_____
3 _____	_____

I believe I will have no problems with:

I think I may need some help with:

Select three words from the list in step 1. What do these words mean in the *context* of this Investigation?

<u>Word</u>	<u>Meaning in this Investigation.</u>
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1 _____	_____
2 _____	_____
3 _____	_____

Investigation 7 Fantasy flight

Name: _____

Due date: _____

Rubric

Step	Ability to...	A	B	C	D	E
Proficiency strands Understanding, Fluency and Problem Solving	Find and record the distance between each destination. Calculate the total distance travelled.	All distances were recorded correctly. All information was well organised and clearly presented in a table. Columns and rows were appropriately labelled. Used an efficient strategy to accurately calculate the total distance travelled.	Needed prompting to organise the information into a table and to use suitable labels for the columns and rows. Made very few errors when recording distances. Corrected any errors when calculating the total distance travelled.	Used simple lists to record the information. Needed some help to label these to make the information clear to the reader. Made some errors when recording the distances and calculating the total distance travelled.	Recorded the information in a haphazard way and made several errors when entering the distances in the table. Had difficulty calculating the total distance travelled.	Did not record any information in a way that could be read and easily understood. Was unable to calculate the total distance travelled.
	Find the latitude and longitude for the 4 destinations and mark them on a map.	Independently used the correct coordinates to mark the four destinations accurately on the map.	Used the coordinates to mark the destinations on the map in the approximate location.	Needed some help to use the coordinates to mark the four destinations on the map.	Selected 4 cities. Was unable to mark the destinations on the map using the coordinates.	Did not understand the concept of latitude and longitude and was unable to mark the destinations on the map.
	Find and record the departure and arrival times and flight durations. Calculate the total flying time.	All flight times were written correctly. All information was well organised and clearly presented in a table. Columns and rows were appropriately labelled. Used an efficient strategy to accurately calculate the total flying time.	Needed prompting to organise the information into a table and to use suitable labels for the columns and rows. Made very few errors when recording flight time. Corrected any errors when calculating the total flying time.	Used simple lists to record the information. Needed some help to label these to make the information clear to the reader. Made some errors when recording the flight times and calculating the total flying time.	Recorded the information in a haphazard way and made several errors when entering the flight times in the table. Had difficulty calculating the total flying time.	Did not record any information in a way that could be read and easily understood. Was unable to calculate the total flying time.
	Write a list of all expenses and calculate the total cost of the trip.	List of expenses was clearly presented. The budget showed a detailed list of accommodation and other costs and how these were calculated. Independently found an efficient strategy to accurately calculate the total cost of the trip.	Listed the accommodation costs and other expenses in a table. Needed prompting to label the columns and rows appropriately. Corrected any errors when calculating the total cost of the trip.	Used simple lists to record the accommodation and other expenses. Needed some help to write these as a budget and to label the items to make the information clear to the reader. Made some errors when calculating the total cost.	Recorded the information on the accommodation costs and other expenses in a haphazard way. Needed help to write a budget that made sense to the reader. Had difficulty calculating the total cost of the trip.	Did not record the accommodation costs and other expenses in a way that could be read and easily understood. Did not understand the concept of a budget. Was unable to or did not calculate the total cost of the trip.
Reasoning	Present your itinerary and budget. Discuss the factors that influenced your planning and budget. Justify your choices.	Clearly explained the itinerary. Identified and discussed any factors that affected planning and budgeting decisions. Discussed how the itinerary could have been improved. Used the information in the tables and budget to justify the choices they made.	Listed a number of factors that could have affected the decisions that were made when planning the itinerary and budget. Made some reference to the results on the data table and graphs when giving reasons for their choices.	Gave a very brief list of some factors that could have affected the itinerary and budget. Gave a brief explanation and some simple reasons for their choices.	Listed some factors that could have affected the itinerary and budget, but these were sometimes improbable. Reasons for their choices were sometimes confused and did not refer back to the data.	Was unable to identify or to express any factors that could have affected the itinerary or budget. Did not give any reasons for their choices.

Teacher comments

Overall rating





Rail journey times

THE SUNLANDER BRISBANE TO CAIRNS	
RAIL JOURNEY TIME: hours from Brisbane	
Station	Journey time
Brisbane	0:00
Northgate	0:14
Caboolture	0:53
Nambour	2:04
Cooroy	2:34
Gympie North	3:17
Maryborough West	4:53
Bundaberg	6:03
Miriam Vale	8:12
Gladstone	8:40
Mount Larcom	10:03
Rockhampton	10:25
St Lawrence	13:29
Carmila	14:29
Sarina	15:20
Mackay	16:05
Proserpine	18:05
Bowen	19:05
Home Hill	20:36
Ayr	20:51
Giru	21:28
Townsville	22:15
Ingham	24:28
Cardwell	25:25
Tully	26:12
Innisfail	27:40
Babinda	28:27
Gordonvale	29:12
Cairns	30:15

THE BRISBANE XPT SYDNEY TO BRISBANE	
RAIL JOURNEY TIME: hours from Sydney	
Station	Journey time
Sydney	0:00
Strathfield	0:12
Hornsby	0:33
Gosford	1:17
Wyong	1:31
Fassifern	1:57
Broadmeadow	2:12
Maitland	2:33
Dungog	3:17
Gloucester	4:06
Wingham	4:59
Taree	5:14
Kendall	5:59
Wauchope	6:17
Kempsey	6:55
Eungai	7:16
Macksville	7:35
Nambucca Heads	7:47
Urunga	8:00
Sawtell	8:16
Coffs Harbour	8:23
Grafton	9:35
Casino	10:56
Kyogle	11:26
Brisbane	13:36

World map outline

