MDM4U1 Data Investigation Project Assessment



Name: _____
Date: _____
Topic:_____

PART A: Required Elements - Written Report

- ☐ Cover page
- ☐ Background Information
- ☐ Statement of Problem/Area of Investigation
- ☐ Presentation of Data (tables, charts, etc.)
- ☐ Summary Statistics
- ☐ Conclusions
- ☐ Evaluation of your techniques
- ☐ Bibliography
- ☐ Appendix items (data, slides of Power Point presentation)

Written Report Assessment

Statement of the Task:
1. There is a clear statement of the question/issue that you investigated
2. There is background information related to your topic
3. There is evidence of a well focused plan that that includes your concept map
4. One of your websites has been validated using your summary of CARS

Data Collection:
4. Data and information has been collected
5. Data is organized in a form appropriate for analysis (tables, charts, graphs)
6. The data is relevant to your task

Analysis:
7. Report includes one variable statistics and appropriate analysis
8. Report includes two variable statistics and appropriate analysis

Conclusions:
9. Report includes interpretations and conclusions which are consistent with the data

Part B: Required Elements – Oral Presentation (Limited to 15 – 20 minutes)

- ❑ Statement of your problem/area of investigation
- ❑ Highlights from the background information
- ❑ Presentation of data (tables, charts, graphs)
- ❑ Summary of analysis
- ❑ Interpretations and conclusions

Oral Report Assessment:

1. All required elements will be assessed
2. Peer critiques

Your Investigation will be assessed for Application, Thinking, and Communication

Note: Presentation times will be selected by random draw. There will be 3 or 4 presentations per day over a 10-day period. Peer critiques are required; you will be expected to do approximately 1 per day except on the day that you are presenting. Your written report is due two days after your presentation.

Analysing Data Investigation: Project Rubric

Problem Solving				
	Level 1	**Level 2**	**Level 3**	**Level 4**
Appling mathematical processes and procedures correctly to investigate the area of study	Correctly applies some of the mathematical processes and procedures with major errors	Correctly applies many of the mathematical processes and procedures with some errors	Correctly applies the mathematical processes and procedures with minor errors	Correctly applies the mathematical processes and procedures with precision and accuracy
Selecting Tools and Computational Strategies				
Selecting and using tools and strategies to organize and analyze the data used in the investigation	Selects and applies tools and strategies for one variable and two variable analysis with major errors or omissions	Selects and applies tools and strategies for one variable and two variable analysis with minor errors or omissions	Selects and applies tools and strategies for one variable and two variable analysis accurately	Selects and applies the most appropriate tools and strategies for one variable and two variable analysis accurately
Connecting				
Connecting the concepts/principles of data analysis to the investigation	Incorporates concepts/principles of data analysis with weak connections to the investigation	Incorporates concepts/principles of data analysis with simple connections to the investigation	Incorporates concepts/principles of data analysis with appropriate connections to the investigation	Incorporates concepts/principles of data analysis with strong connections to the investigation
Representing				
Creating an appropriate variety of mathematical representations within the investigation	Few representations are embedded in the investigation	Some representations are embedded in the investigation	An adequate variety of representations are embedded in the investigation	An extensive variety of representations are embedded in the investigation
Communicating				
Using mathematical symbols, labels, units and conventions related to data analysis correctly	Sometimes uses mathematical symbols, labels and conventions related to related to data analysis correctly within the investigation	Usually uses mathematical symbols, labels and conventions related to related to data analysis correctly within the investigation	Consistently uses mathematical symbols, labels and conventions related to related to data analysis correctly within the investigation	Consistently and meticulously uses mathematical symbols, labels and conventions related to related to data analysis correctly and in novel ways within the investigation
Integrating narrative and mathematical forms of communication in the investigation	Either mathematical or narrative form is present in the investigation but not both	Both mathematical and narrative forms are present in the investigation but the forms are not integrated	Both mathematical and narrative forms are present and integrated in the investigation	A variety of mathematical and narrative forms are present and integrated in the investigation and are well chosen

DATA INVESTIGATION PROJECT:
PEER CRITIQUE - ORAL PRESENTATION

Name of Presenter_____ **Overall Rating:**

Level

Project Topic _____

Presentation Start Time: _____ **End Time:**_____

Name of Evaluator _____ **Date**_____

Directions: *Critique your classmate's presentation using the criteria provided. Your critique will be assessed by your teacher and shared with the presenter. Use the scale provided to rate the presentation ("1" is lowest and "4" is the highest) Provide evidence to support your evaluations.*

Delivery:				
Speaking voice is clear, relaxed and audible	1	2	3	4
Pacing is appropriate and effective for the allotted time	1	2	3	4
Uses visuals effectively (e.g., overheads, charts, graphs, power point)	1	2	3	4
Visuals/handouts are easily understood	1	2	3	4
Responds well to audience questions about the investigation	1	2	3	4
Evidence:				
Content:				
Demonstrates a thorough understanding of the investigation	1	2	3	4
Clearly and concisely explains ideas	1	2	3	4
Applies MDM4U course knowledge and tools	1	2	3	4
Uses mathematical terms, conventions and symbols correctly	1	2	3	4
Evidence:				
Organization:				
Introduction clearly describes the investigation	1	2	3	4
Logical presentation of key ideas and information	1	2	3	4
Effective transitions between ideas and information	1	2	3	4
Conclusion is persuasive and related to the investigation	1	2	3	4
Evidence:				

Comments/Suggestions: