



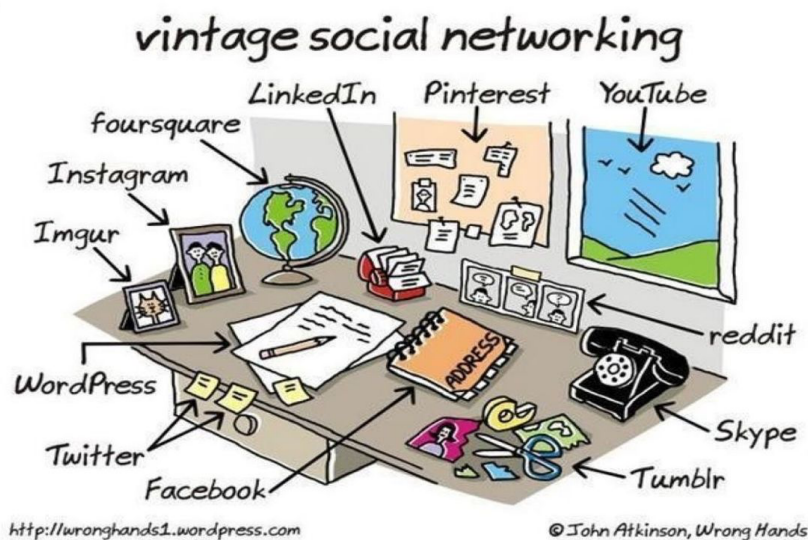
MDM4U1: Create a Survey Assignment

**Choose one of the following Topics and design a survey:
(You may narrow down your choice to a specific stream for
your survey)**

- 1) Environmental issues are among the most pressing challenges facing humanity today. These issues encompass a wide range of problems, including climate change, deforestation, pollution, loss of biodiversity, and water scarcity. You are an environmentalist who would like to find out how well our high school students are currently practicing and making a difference in solving these environmental issues. Your job is to assist a non-profit organization to prepare a survey to collect primary data on this matter. (You may select a specific topic such as climate change, deforestation, pollution, loss of biodiversity, and water scarcity, etc.)



- 2) Ms. Hung is interested in understanding the extent to which our students rely on the internet and how their day will be impacted if they have no access to it. Create a survey to gather primary data for this information.



Instructions:

Choose ONE of the topics given to create a short survey. This survey will be designed for using **PAPER AND PEN** as the original purpose for participants to complete.

Part 1:

- a) The survey must be presented in proper survey format with a clear introduction that are used as a Paper and Pen version survey for your teacher to evaluate. (Read the notes for proper format) **[Knowledge - 4 marks]**
- b) The survey must include 7 useful and relevant questions that can truly gather **meaningful data** for the purpose of doing a research study and analysis: **[Application - 7 marks for meaningful questions]**
- **EXACTLY** 3 quantitative variable questions
 - **EXACTLY** 3 qualitative variables questions
 - **EXACTLY** 1 meaningful “open question”
 - Cannot have questions that provide answers with YES/NO
 - You must carefully consider selecting the proper choice of different types of responses for participants in each question to avoid biases.
 - Questions regarding participants’ information such as age, grade, gender, etc. will not be considered as part of the 7 questions but you are allowed to ask.
- c) At the end of each survey question, you are going to clearly state and identify which specific type of quantitative or qualitative variable is being used for the choice of the answer (see below for sample). **[Application - 3 marks for selecting the proper choice of responses]**

Example:

Question 1: On average, how many hours of sleep do you get on a daily basis?

[quantitative variable: continuous data]

- A) 0-3 hours
- B) 3-6 hours
- C) 6-9 hours
- D) 9-12 hours
- E) 12-15 hours
- F) 15+ hours

Note* open-ended questions cannot be identified as quantitative/qualitative, therefore, no need to provide that.

- d) 4 marks will be awarded for communication (i.e. logical flow of the questions from general idea questions to specific topic related questions, organization of the similar types of questions or topic together, grammar, sentence structure, creativity and attractiveness) **[Communication - 4 marks]**

Part 2: [Thinking – 8 marks] (Please print this page with your solutions filled for submission)

Answer the following questions separately from the survey: Please submit the following in paper form. The expectation to each question is only one short paragraph, keep it short and straight to the point. The length of the answer for each question is considered as the length of a communication question in a normal test.

1) Attached a paper version of your survey. (Knowledge /4; Application /10; Communication /4)

2) Identify the population you are intending to survey. [1 mark]

3) Select one or a combination of two sampling technique(s) you would use to collect data for this research project and give two reasons for why this method has been selected: [3 marks]

Sampling Techniques: _____

(1) reason:

(2) reason:

4) If you need to distribute this survey to collect 500 responses using the sampling technique from 3) without the use of internet/social media, how you would apply the sampling technique to collect data? Describe your action plan of distribution of the survey step-by-step. [2 marks]

Step #1: _____

Step #2: _____

Step #3: _____

In you need more steps.....

Step #4: _____

Step #5: _____

5) While most of the biases have been avoided, some may not be under your control will happen. With the sampling technique you have selected from 3), provide one type of bias that may hinder the results of the data that will be collected? Explain. [2 marks]

Bias:

Reason: _____

(Please print and attach this page for submission)

K/U /7	App /10	Thinking /6	Comm /4
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Marking Scheme for Survey Assignment

(Attach this page when you submit your assignment)

Name:	Alpha #
Knowledge and Understanding	
Proper Survey Format and layout	/2
Clear instructions (purpose, instruction, return method)	/1.5
Paper form survey	/1
Proper type of general and specific variables	/2.5
	<hr/>
	/7
Application	
Population identified	/1
Proper Sampling technique stated	/1
Relevant, meaningful and useful questions to carry the research	/7
Proper choice of selecting types of responses for questions	/1
	<hr/>
	/10
Thinking	
Reasons for the use of sampling technique	/2
Description of collection process	/2
Reflection on biases	/2
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	/6
Communication	
Logical flow of the questions in the survey	/1
Organization of the questions in the survey	/1
Grammar, sentence structure	/1
Creativity and attractiveness	/1
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	/4