

Data Collection and Analysis Project

Sixth Grade STEM Startups



Developed by:

The teachers, students, and mentors in the
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1. DATA COLLECTION AND ANALYSIS PROJECT

1.1. OVERVIEW

In this project you will be creating your own questions to gather data on. You will get your question approved by the teacher and proceed to collect data. This project is open-ended in terms of what question you choose to ask and how you choose to sample.

1.2. NOTES

- When selecting your question consider whether you will be able to collect data from 15-20 sources within the span of a week.
- Your data collection doesn't necessarily need to involve interviewing others. Example: I want to gather data on how many words are on a page of a math textbook. So, I counted the number of words on a full page from 20 different textbooks and recorded my findings

1.3. REQUIREMENTS

- (1) An approval from the teacher to collect data pertaining to a subject
- (2) Recording of all data collected as well as how it was collected
- (3) Number readout: minimum, maximum, mean, median, mode
- (4) Graph displays

Your data must be displayed in a stem-and-leaf plot and one of the following: a bar chart, a pie chart, and a dot chart.

- (5) Analysis of data

What did your data show you? Why is this important? What can you conclude?

- (6) Presentation

Create a way to show your results to the class (3-5min)

	Components	Points Earned	Comments
Data Records and Data Collection	- Data collection process - Records of all data collected	/5	
Number Readout (with work shown)	- Data ordered from least to greatest - Indicators of min, max, mean, medium, and mode - Work shown for the min, max, mean, medium, and mode	/15	
Graph Displays	-Data is displayed in a stem-and-leaf plot - Data is displayed in either a bar chart, a pie chart, or a dot chart	/15	
Analysis of Data	- ¾ page minimum illustrating the following: What the data shows, why it is important, and what can you conclude from the data?	/10	
Presentation	- Student has an organized presentation including requirements (2)-(5) - Student presentation lasts between 3 and 5 minutes	/5	
Total		/50	