

# How to use this slide deck

- Hidden slides are teacher notes
- Speaker notes include details on data  
★ being used in that lesson

# A Year-Long Data Collection and Visualization Project!

# A Year-Long Data Collection and Visualization Project!



# QUARTER 1



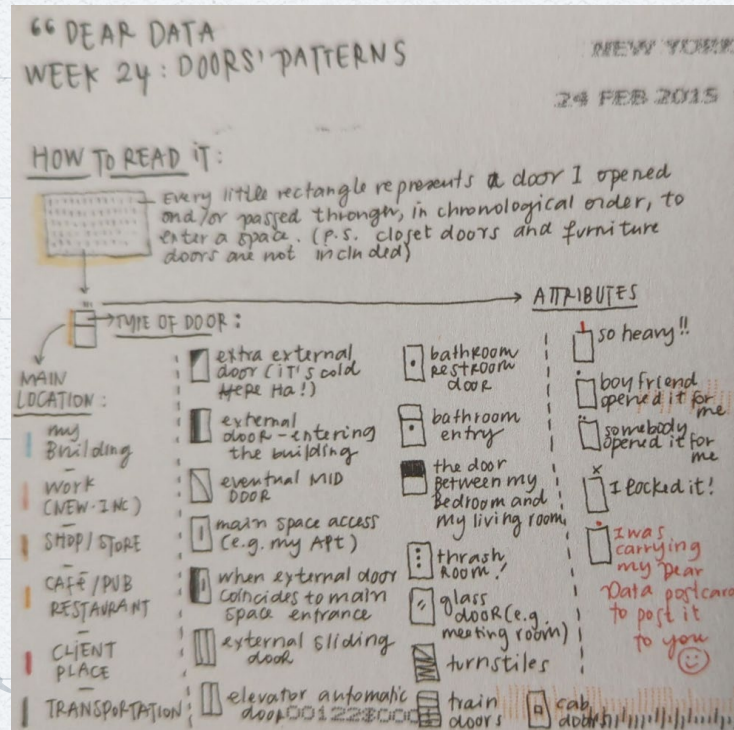
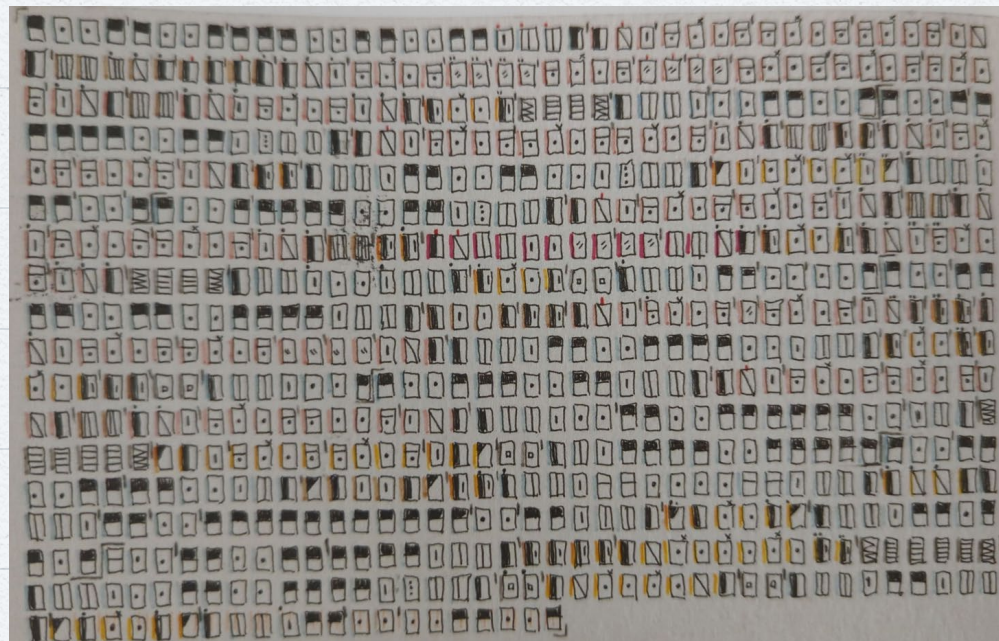
# WEEK 1

Over the course of the next few weeks you will be receiving various sets of data that you will analyze and then visualize.

Your visualizations can be done in any way you feel represents the data best. There is only one rule..your visualizations should not be graphs.



# EXAMPLES OF VISUALIZATIONS









# WEEK 1

## Days 1 & 2: Exploring the Data

- X **Activity:** Review the attendance data.
- X **Discussion Prompts:**
  - X What do you notice?
  - X What do you wonder?

## Day 3: Class Discussion on Visualization

- X **Activity:** Discuss as a class how to visualize the data.
- X **Group Discussion:** Write down all ideas for visualizing the data.

Reminder: There is no right or wrong way to display this data.

## Day 4: Planning and Starting Visualizations

- X **Group Activity:** With your group decide how you might visualize the data.
- X **Task:** Begin working on creating a visualization of the data.







# WEEK 2

## Day 1: Continue Visualizing Data

**Activity:** Continue working your data visualizations with your group.

## Day 2: Gallery Walk

**Activity:** With your group, look at the different visualizations that each group created.

**Reflection Prompts:**

What do you notice or wonder about the visualizations?

What questions arise from viewing the data in different ways?

## Day 4: Class Discussion

**Activity:** Discuss the observations and questions from the gallery walk.

## Day 5: Second Gallery Walk with Feedback

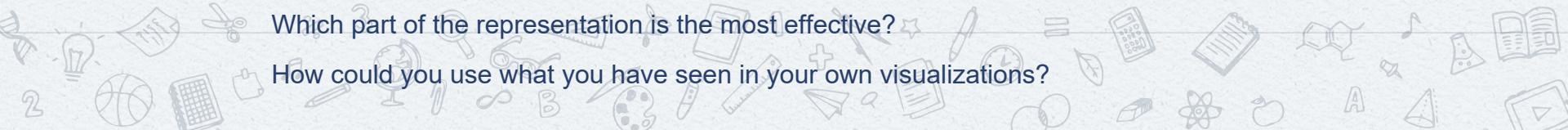
**Activity:** Conduct another gallery walk.

**Feedback Prompts:**

What would make the data easier to read?

Which part of the representation is the most effective? ☆

How could you use what you have seen in your own visualizations?







# WEEK 3

## Day 1: Measuring Heights

- X **Activity:** Partner up and measure each other's height.
- X **Task:** Write your height on the poster labeled "Student Heights."
- X **Discussion:** Observe the data. What patterns do you see?

## Day 2: Brainstorming Visualization

- X **Group Discussion:** How can we display this data creatively (without using a graph)?
- X **Activity:** With your group, select a unique method for visualizing the data and start working on it.

## Day 4: Visualization Development

- X **Activity:** Continue working on your data visualization.

## Day 5: Gallery Walk

- X **Activity:** Walk around the room and observe the different data visualizations created by your classmates.
- X **Reflection and Discussion:**
  - X What do you notice and wonder about the visualizations?
  - X What questions do you have about the data or the chosen display methods?





# WEEK 4

## Day 1: Exploring the Data

- X **Activity:** Look at the data titled: “Boy/Girl numbers by classroom”
- X **Discussion:** Observe the data. What patterns do you see?

## Day 2: Discussion and Visualization Planning

- X **Class Discussion:** How can we visualize this data in a non -standard way?
- X **Activity:** Begin creating a visualization with your group based on the discussed ideas.

## Day 4: Finalizing Visualizations

- X **Activity:** Finish and polish your visualizations.

## Day 5: Gallery Walk

- X **Activity:** Walk around the room and observe the different data visualizations created by your classmates.
- X **Reflection:**
  - X What do you notice or wonder about the visualizations?
  - X What questions arise from viewing the data in different ways





# WEEK 5

## Day 1: Exploring the Data

- X **Task:** On the poster labeled “screen time”, estimate the number of hours per **day** that you are on electronics (phones, video games, etc.)
- X **Discussion:** With your group, observe the data. What patterns do you see?

## Day 2: Brainstorming Visualization

- X **Class Discussion:** How can we visualize this data in a non -standard way?
- X **Activity:** Begin creating a visualization with your group based on the discussed ideas.

## Day 4: Finalizing Visualizations

- X **Activity:** Finish and polish your visualizations.

## Day 5: Gallery Walk

- X **Activity:** Walk around the room and observe the different data visualizations created by your classmates.
- X **Reflection:**
  - X What do you notice or wonder about the visualizations?
  - X What questions arise from viewing the data in different ways





# WEEK 6

## Day 1: Exploring the Data

- X **Task:** On the poster labeled “How students get home”, place a tally under the category that describes how you go home each day.
- X **Discussion:** Observe the data. What patterns do you see?

## Day 2: Brainstorming Visualization

- X **Class Discussion:** How can we visualize this data in a non -standard way?
- X **Activity:** Begin creating a visualization with your group based on the discussed ideas.

## Day 4: Finalizing Visualizations

- X **Activity:** Finish and polish your visualizations.

## Day 5: Gallery Walk

- X **Activity:** Walk around the room and observe the different data visualizations created by your classmates.
- X **Reflection:**
  - X What do you notice or wonder about the visualizations?
  - X What questions arise from viewing the data in different ways







# WEEK 7

## Day 1: Exploring the Data

- X **Discussion:** Observe the data. What patterns do you see?

## Day 2: Brainstorming Visualization

- X **Class Discussion:** How can we visualize this data in a non -standard way?
- X **Activity:** Begin creating a visualization with your group based on the discussed ideas.

## Day 4: Finalizing Visualizations

- X **Activity:** Finish and polish your visualizations.

## Day 5: Gallery Walk

- X **Activity:** Walk around the room and observe the different data visualizations created by your classmates.
- X **Reflection:**
  - X What do you notice or wonder about the visualizations?
  - X What questions arise from viewing the data in different ways



## WEEK 8

## Day 1: Exploring the Data

- X Task:** On the poster titled “Siblings”, place a tally under the number of siblings you have.
- X Discussion:** Observe the data. What patterns do you see?

## Day 2: Brainstorming Visualization

- X **Class Discussion:** How can we visualize this data in a non -standard way?
- X **Activity:** Begin creating a visualization with your group based on the discussed ideas.

## Day 4: Finalizing Visualizations

- ## X Activity: Finish and polish your visualizations.

## Day 5: Gallery Walk

- X **Activity:** Walk around the room and observe the different data visualizations created by your classmates.
  - X **Reflection:**
    - X What do you notice or wonder about the visualizations?
    - X What questions arise from viewing the data in different ways



# WEEK 9

## Day 1: Exploring the Data

- X **Activity:** Each group presents their favorite data visualization project from the term.

## Day 2: Continuation and Feedback

- X **Activity:** Continue presentations if needed.
- X **Feedback:** Provide constructive feedback and celebrate the students' work.

## Day 3: Final Review Session

- X **Activity:** Summarize key concepts learned throughout the term.

