How to use this slide deck

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

Dear Data

A Year-Long Data Collection and Visualization Project!

What is dear data?

Dear Data was a pen-pal project between Giorgia Lupi and Stefanie Posavec. They took stock of their daily lives by creating postcards that displayed the data they collected from their day-to-day in a fun, visually different way.

What are the benefits?

Allow students to engage and analyze data in unique ways.

Encourage students to show how they view data through art.

Helps the development of data literacy and basic science skills (collecting, analyzing, and visualizing data)

Objective:

The purpose of this slide deck is to provide students an opportunity to engage with data, explore creative visualization of data, develop data literacy skills, practice collaboration, and reflection/feedback skills.

Quarter 3

Week 20

Day 1: Exploring the Data

- ✘ **Task:** On your own, review the "Classroom Environment Data". Be ready to share your observations.
- ✘ **Discussion:** Share your observations with your group. What patterns do you see?

Day 2: Brainstorming Visualization

- ✘ **Group Discussion:** How can we visualize this data in a non-standard way?
- ✘ **Activity:** Begin creating a visualization on your own based on the discussed ideas.

Day 4: Finalizing Visualizations

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

Day 5: Gallery Walk

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

Week 21

Day 1: Exploring the Data

- ✗ **Task:** On your own, review the "Humidity and Temperature". Be ready to share with your group.
- ✗ **Discussion:** Share your observations with your group. What patterns do you see?

Day 2: Brainstorming Visualization

- ✗ **Group Discussion:** How can we visualize this data in a non-standard way?
- ✗ **Activity:** Begin creating a visualization on your own based on the discussed ideas.

Day 4: Finalizing Visualizations

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

Day 5: Gallery Walk

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

Week 22

Day 1: Exploring the Data

- ✘ **Task:** On the poster titled "Favorite Fast Food", place a tally underneath your favorite fast food restaurant.
- ✘ **Discussion:** Share your observations with your group. What patterns do you see?

Day 2: Brainstorming Visualization

- ✘ **Group Discussion:** How can we visualize this data in a non-standard way?
- ✘ **Activity:** Begin creating a visualization on your own based on the discussed ideas.

Day 4: Finalizing Visualizations

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

Day 5: Gallery Walk

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

Week 23

Day 1: Exploring the Data

- ✘ **Task:** On the poster titled "Music Genres" place a tally underneath your favorite music genre.
- ✘ **Discussion:** Share your observations with your group. What patterns do you see?

Day 2: Brainstorming Visualization

- ✘ **Group Discussion:** How can we visualize this data in a non-standard way?
- ✘ **Activity:** Begin creating a visualization on your own based on the discussed ideas.

Day 4: Finalizing Visualizations

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

Day 5: Gallery Walk

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

Week 24

Day 1: Exploring the Data

- ✘ **Task:** On the poster titled "Favorite Sport", place a tally mark underneath your favorite sport.
- ✘ **Discussion:** Share your observations with your group. What patterns do you see?

Day 2: Brainstorming Visualization

- ✘ **Group Discussion:** How can we visualize this data in a non-standard way?
- ✘ **Activity:** Begin creating a visualization on your own based on the discussed ideas.

Day 4: Finalizing Visualizations

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

Day 5: Gallery Walk

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

Week 25

Day 1: Exploring the Data

- ✘ **Task:** On your own review the data "Favorite Sports Teams". Be ready to share with your group.
- ✘ **Discussion:** Share your observations with your group. What patterns do you see?

Day 2: Brainstorming Visualization

- ✘ **Group Discussion:** How can we visualize this data in a non-standard way?
- ✘ **Activity:** Begin creating a visualization on your own based on the discussed ideas.

Day 4: Finalizing Visualizations

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

Day 5: Gallery Walk

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

Week 26

Day 1: Exploring the Data

✗ **Task:** Using an expo marker, place an x on the furthest place from Tucson that you have visited. (Your mark does not have to be 100% perfect. If someone has placed an X on your location, put a tally mark next to the X.

✗ Review the data on your own, what do you notice? Be ready to share with your group.

✗ **Discussion:** Share your observations with your group. What patterns do you see?

Day 2: Brainstorming Visualization

✗ **Group Discussion:** How can we visualize this data in a non-standard way?

✗ **Activity:** Begin creating a visualization on your own based on the discussed ideas.

Day 4: Finalizing Visualizations

✗ **Activity:** Finish and polish your visualizations.

Day 5: Gallery Walk

✗ **Activity:** Walk around the room and observe the different data visualizations created by your classmates.

✗ **Reflection:**

✗ What do you notice or wonder about the visualizations?

✗ What questions arise from viewing the data in different ways

Week 27

Day 1: Exploring the Data

- ✗ **Task:** If you have not already done so, think about what sort of data you can collect from home or school. You need to have at least 15 data points..
- ✗ **Discussion:** With your group discuss, what sort of data can you collect? How could you collect that data?

Day 2: Brainstorming Visualization

- ✗ **Group Discussion:** Share your preliminary data with your group (you should have a few data points). What way can you visualize your data?
- ✗ **Activity:** Continue collecting and organizing your data. If possible, begin visualizing your data.

Day 4: Finalizing Visualizations

- ✗ **Activity:** Begin visualizing your data.

Day 5: Gallery Walk

- ✗ **Activity:** Complete your data visualization.
- ✗ **Reflection:**
  - ✗ What was difficult about collecting and visualizing your own data?
  - ✗ What is something that you learned?

Week 28

Day 1: Exploring the Data

    ✗   **Activity:** Each student presents their favorite data visualization project from the term.

Day 2: Continuation and Feedback

    ✗   **Activity:** Continue presentations if needed.

    ✗   **Feedback:** Provide constructive feedback and celebrate the students' work.

Day 3: Final Review Session

    ✗   **Activity:** Summarize key concepts learned throughout the term.