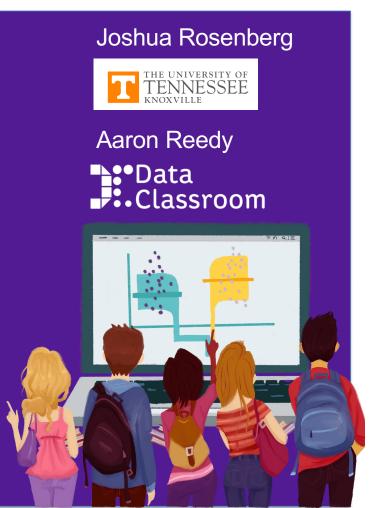
## Analyzing and Interpreting Scientific Data With DataClassroom

Graphing as the gateway to data analysis and statistics

Welcome!

Create a free account at <a href="https://dataclassroom.com">https://dataclassroom.com</a>!



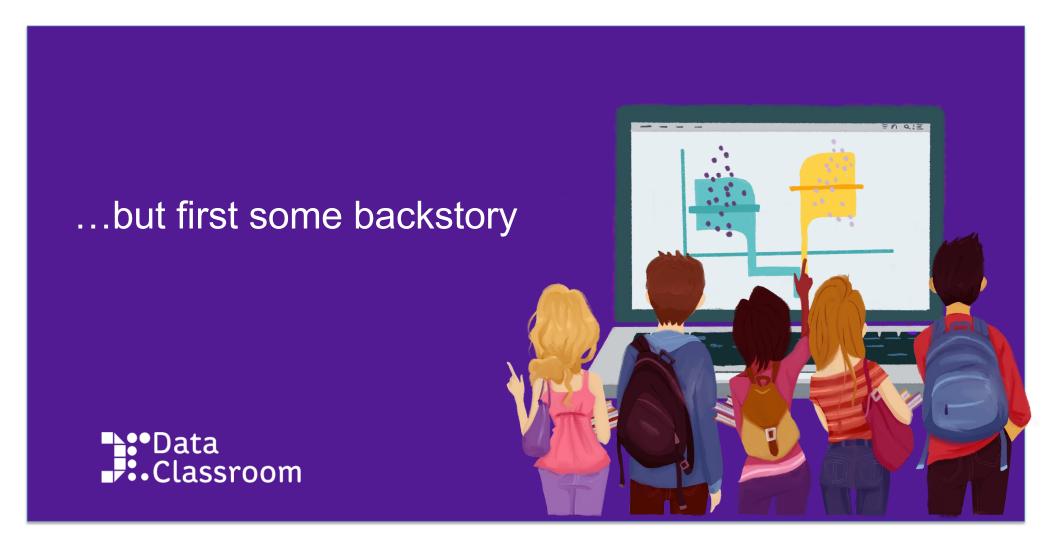
DataClassroom is a web-app to teach data skills in grades 6-12 \*start recording

Let's start (briefly!) in break out rooms (5 min.); please type into the chat what content area you teach

Starting with whomever slept the *most* last night . . .

- What is one thing that is exciting to you about your students analyzing scientific data in your class?
- What is one challenge related to analyzing data you've experienced?

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## #1 Begin with graphing

Strategy for graphing as a gateway to data analysis and statistics

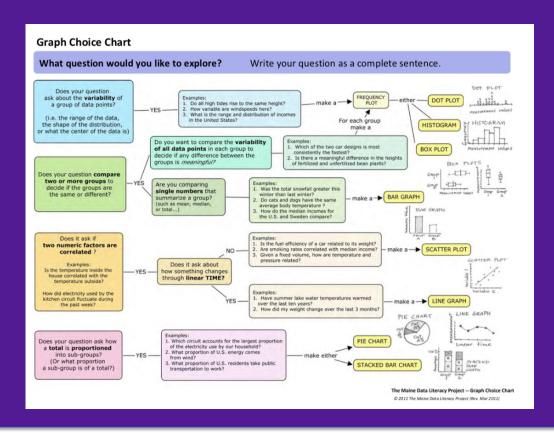
### #2 Focus on the question

Strategy for graphing as a gateway to data analysis and statistics

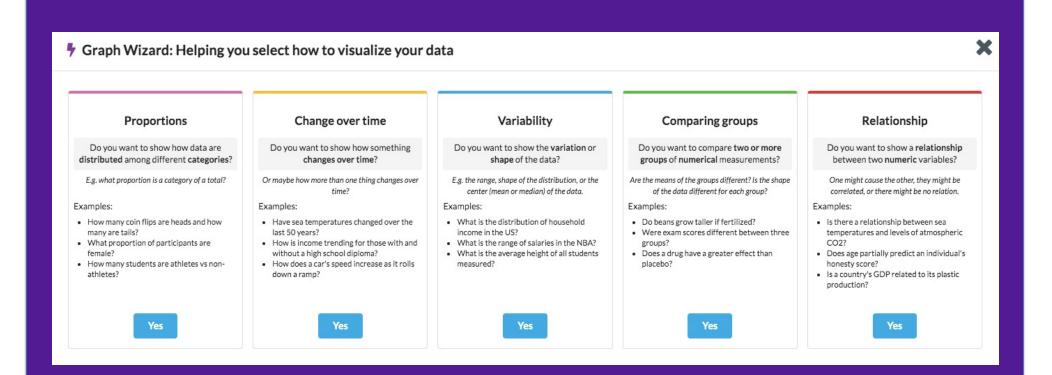
# #3 Move on to more advanced analyses through graphs

Strategy for graphing as a gateway to data analysis and statistics

#### Inspiration for focusing on the question

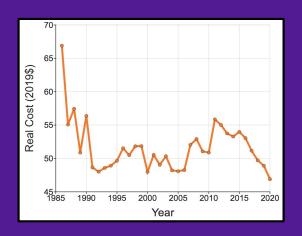


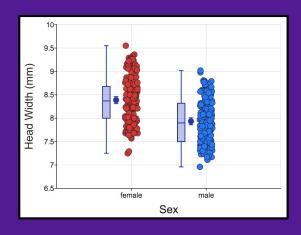
Webber, H., Nelson, S. J., Weatherbee, R., Zoellick, B., & Schauffler, M. (2014). The graph choice chart. *The Science Teacher* 



#### **Graph Wizard in DataClassroom**

#### Let's work with two examples







Examples for graphing as a gateway to data analysis and statistics

# Back in the same break out rooms we were in earlier, let's discuss two questions

Jamboard #1: What thoughts, reactions, or questions do you have about the idea that graphing can serve as a gateway to data analysis and statistics? Feel free to explore a bit!

Jamboard #2: What is one plan you have for analyzing and interpreting scientific data in your class over the next year?

Link

We'll spend 10 minutes in break out rooms!





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