Math and your future success

Comparing saved and suggested career data

⏱ Length:
30-35 mins

About this lesson

Students will take part in a classroom discussion about top **Saved Careers** versus top **Matchmaker**-suggested careers in their class, and will create graphs to display this information in different ways.

Objective

By the end of this lesson, students will

- Compare their class **Saved Careers** report to the **Matchmaker: Suggested Careers** report, along with their own **Saved Careers** vs. **Matchmaker: Suggested Careers**
- Interpret data to compare the **Saved Careers** report for their class to the **Matchmaker: Suggested Careers** report for the class
- Be able to use graphs to display the data from the **Saved Careers** and **Matchmaker: Suggested Careers** reports

Inquiry prompt

- How well do career-related assessments align to students' own saved career options, and why might they differ?
- What can I learn from interpreting and graphing saved and suggested careers data?

Before you begin

1. Prior to starting this lesson, students should be familiar with different types of graphs (line plot, bar graph, pie chart, etc) and their functions.
2. Ensure that you are able to play the Math and your future success video. This video is also available in Spanish.
3. Ensure students have completed the **Matchmaker** assessment and have saved at least three careers before you access Student Work reports in Xello.
4. Ensure that you are able to log into your educator account and from the left menu, under **Reports**, can access the **Student Work** report. Need help with Xello Reports? Check out Run Reports on Students' About Me Profile .
5. Ensure that students are able to see both the **Saved Careers** and **Suggested Careers** by **Matchmaker** reports filtered to your group of students, whether you project them each for a period of time, download and share the report, or print off copies for each student. For the purpose of this activity, students will need to be able to see total numbers of students who have saved each career, as well as how many students were matched with each career suggested by **Matchmaker**.
6. Ensure that students are able to log into their accounts and access **About Me**.

Materials required

- Math and your future success video. This video is also available in Spanish.
- Xello Student Work Report on student **Saved Careers**
- Xello Student Work Report on top **Suggested Careers** by **Matchmaker**
- Whiteboard and whiteboard markers (optional)

Artifacts

Students:

- will create graphs or charts to display career data

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7. Decide whether to take discussion/brainstorming notes with your class via a slide deck and project for students to view, or on a whiteboard in the physical classroom.

Teaching strategies

1. Show students the Math and your future success video. This video is also available in Spanish. Ask students to consider the following questions as they watch:
   - What are some connections between math and everyday life?
   - Did you find anything interesting about the future options related to math that are mentioned in the video?

2. When the video is over, ask students to share their biggest takeaways from the video and their responses to the discussion question above.

3. Next, have students log in to their accounts. Direct students to find their own **Saved Careers** under the heart icon in the top navigation menu, and then the top three careers suggested by **Matchmaker** found under **Explore Careers** and sorting the list of careers by **Matchmaker** (Interest Match) results. Have them consider the following questions:
   - Do the careers match up? Why or why not?
   - What are some reasons why they may not match up?

4. Log in to your educator account, then, under **Reports**, access the **Student Work** report. Show students the top **Saved Careers** report for your class (either by projecting your screen or printing copies of the report for each student.) Discuss together the trends they notice. Write down the top five **Saved Careers** so that students can see.

5. Next, show students the top **Suggested Careers** by **Matchmaker** for your class. Write down the top five careers and spent a few minutes discussing what students notice about the two reports, considering the following questions:
   - Where are there similarities and differences? Is there overlap?
   - Do the careers in the reports correlate with a common career cluster or subject area, even if the careers themselves are different across the reports?
   - How does the gap between individual **Saved Careers** vs. **Matchmaker**-suggested careers compare to the reports for the class? Does your gap reflect the trends suggested by the class reports?

6. Direct students to decide on a different way to present the class data they have been shown, this time on just one chart. Discuss their options — line plot, bar graph, etc. Explain that their objective is to present the data so that the viewer can compare **Saved Careers** to **Suggested Careers** by **Matchmaker** for the class by looking at a single graph.

7. Allow students 10-15 minutes to complete this task.

8. Ask for a few volunteers to share how they chose to present the data. As

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students present, ask for reflections on differences between the different types of graphs/charts and which ones students think are more effective in helping the audience interpret the data.

9 When students have finished sharing their work, discuss the following questions as a class:

- Is it helpful to see this information presented in different ways?
- How can interpreting data help me in my life outside of school?

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