



YOU ARE AN ENGINEER



Objective:

Learn what kind of engineer you are most like!



In this slide show, you will

- 1. Learn about the 4 key areas of engineering
- 2. Print or make your own worksheet
- 3. Get instructions on completing the activity



4 KEY AREAS OF ENGINEERING



There are many, many different types of engineers.



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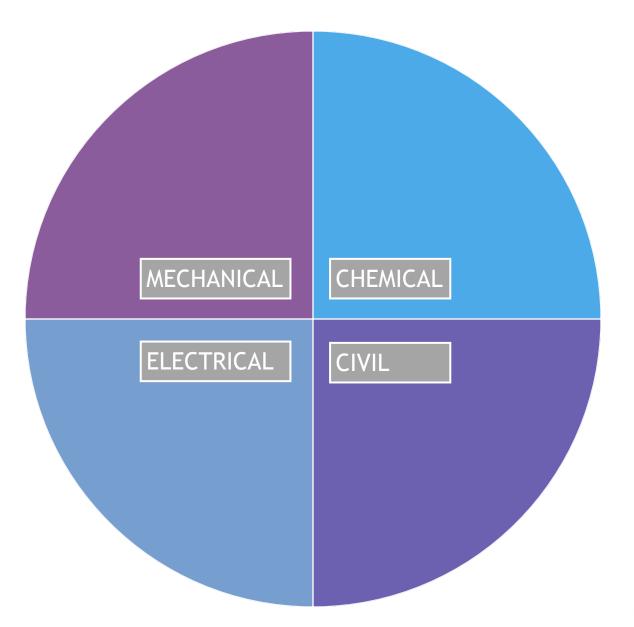
But their skills come from 4 key areas



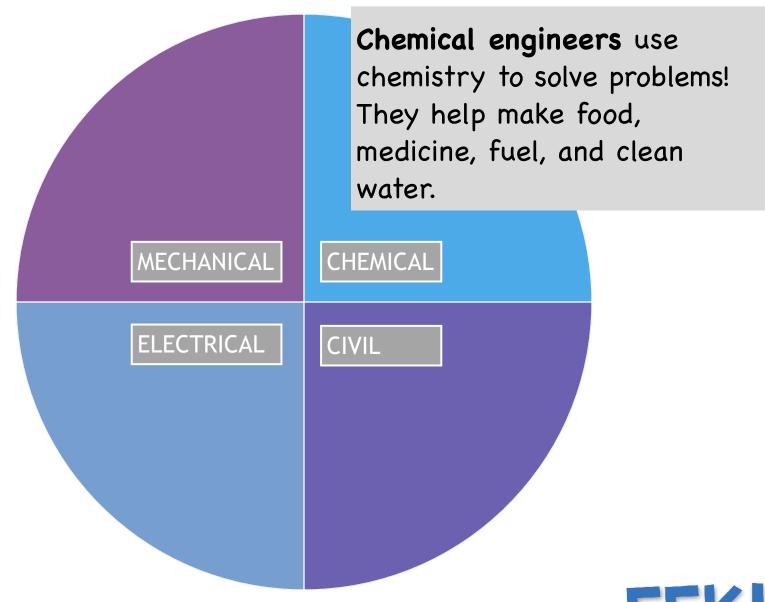
4 Key Areas of Engineering

- 1. Chemical
- 2. Civil
- 3. Electrical
- 4. Mechanical

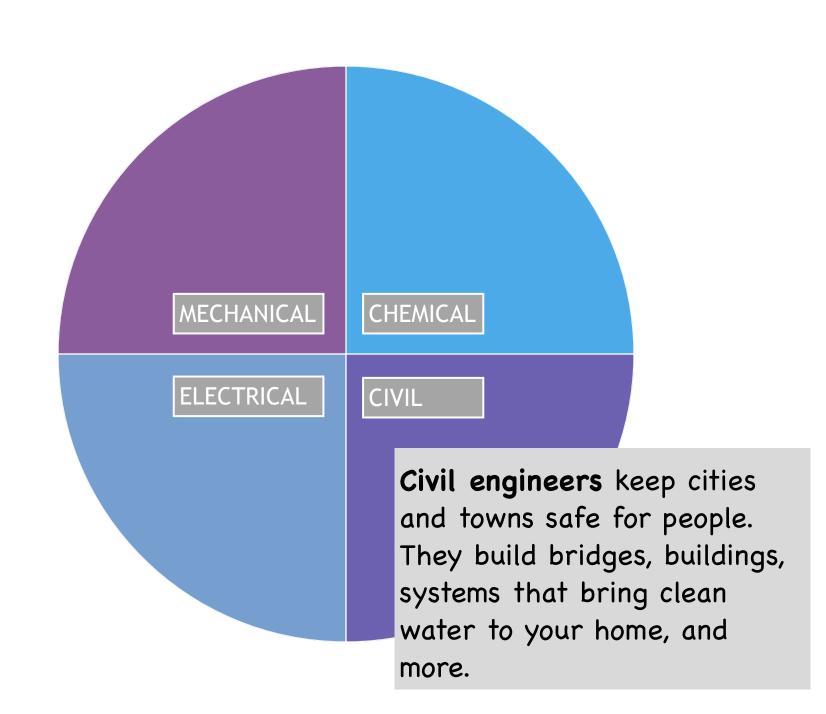


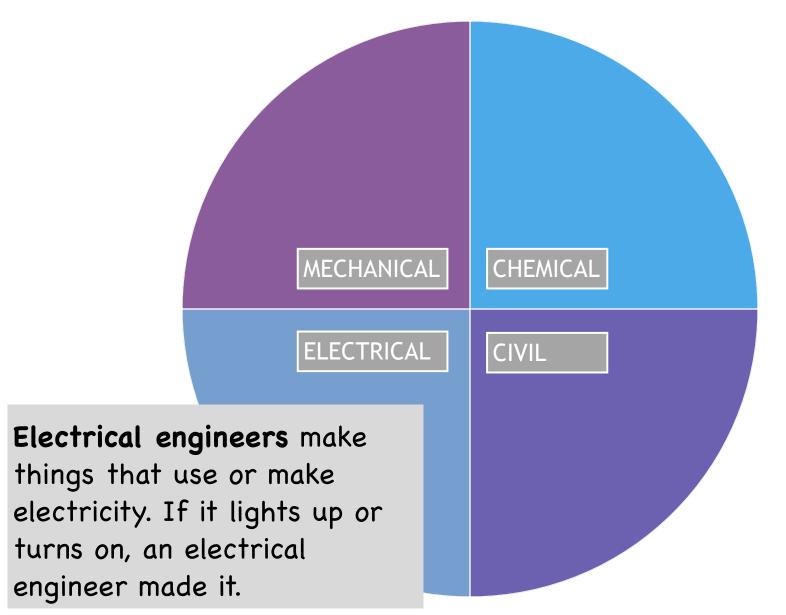




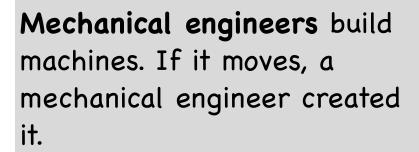














CHEMICAL

ELECTRICAL

CIVIL



Though there are many engineers who are 1 of these 4 areas.....



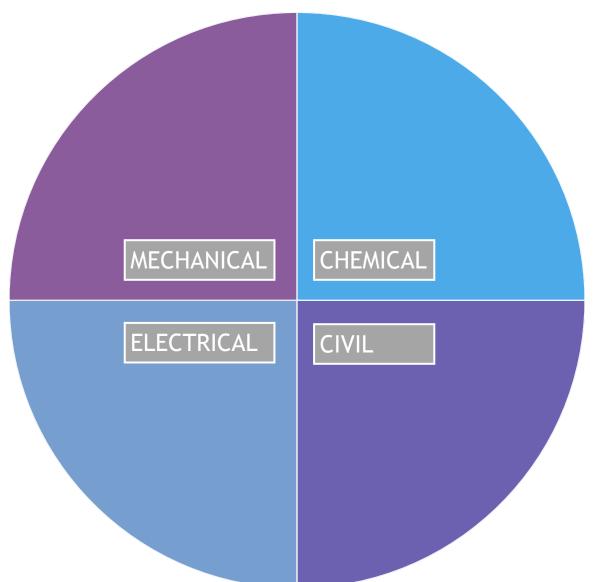
Though there are many engineers who are 1 of these 4 areas.....

There are other engineers who combine skills from more than 1 area.

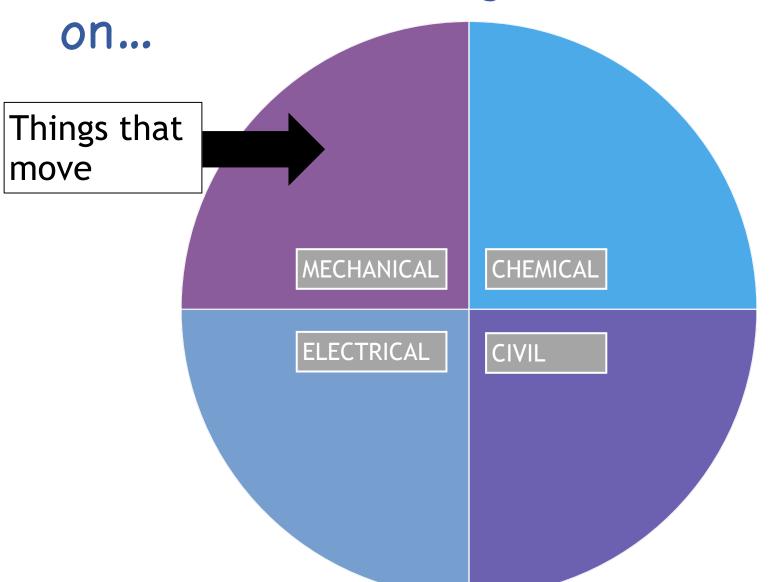
FOR EXAMPLE...



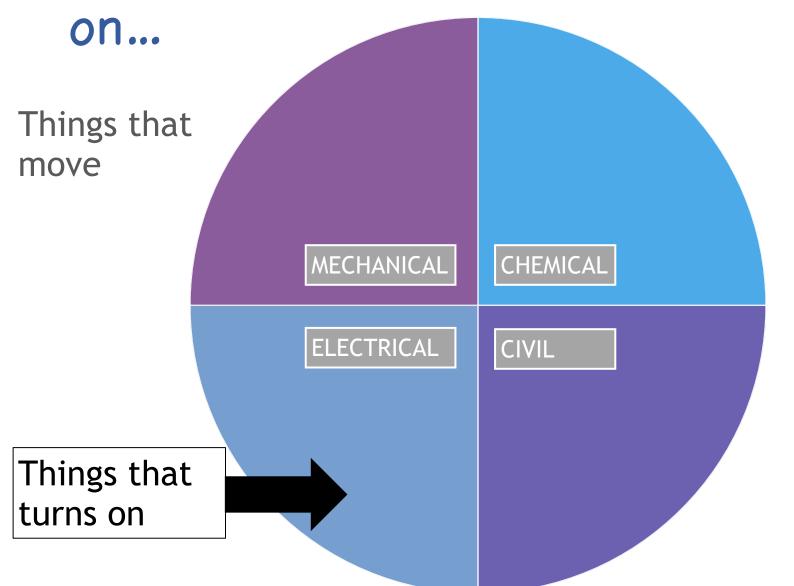
on...



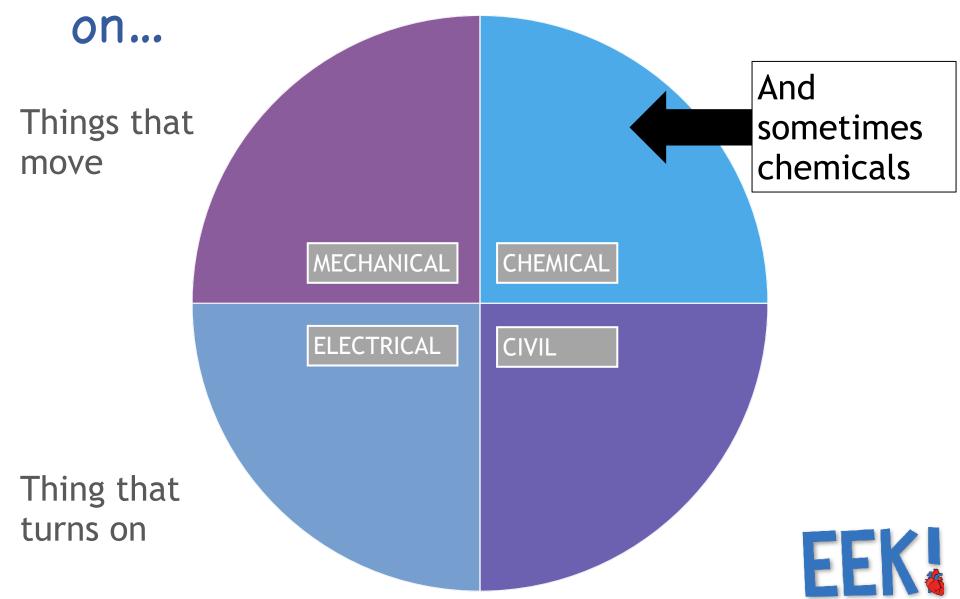












Our activity explores the different ways chemical, civil, electrical, and mechanical engineering can be used.



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You will also see what kind of engineer you are!



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So, let's get set up!



ACTIVITY SET UP



Choose how you will prepare your worksheet

Option 1:

Print pdf document provided named
"YaE_Worksheet"

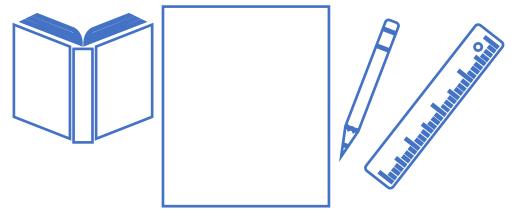
Option 2:

Make your own worksheet



If you chose option 2, you will need

- •1 sheet of paper
- •1 pencil
- Something to help you draw straight lines
 - Such as a ruler or book



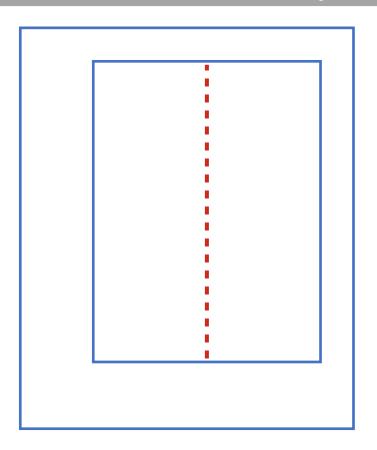


1. Draw a giant rectangle on your paper

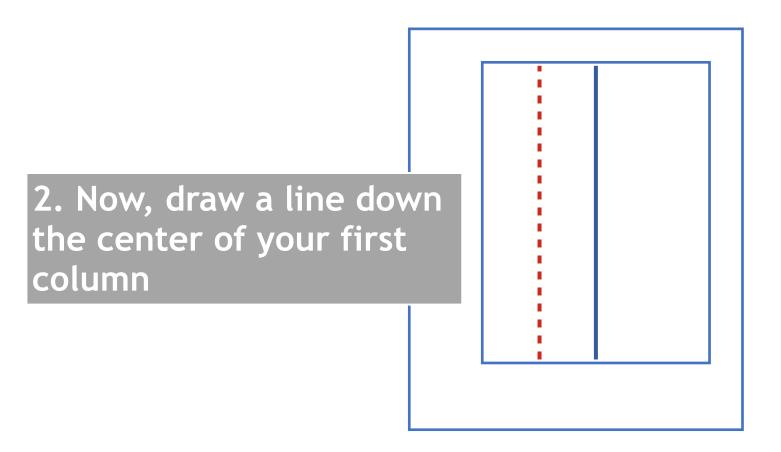
You will need to write on the left and bottom so be sure to leave room for that. Extra space on the left Tip: carefully tracing a book is an easy way Extra space to draw a rectangle! on the bottom



1. Draw a line down the center of your rectangle





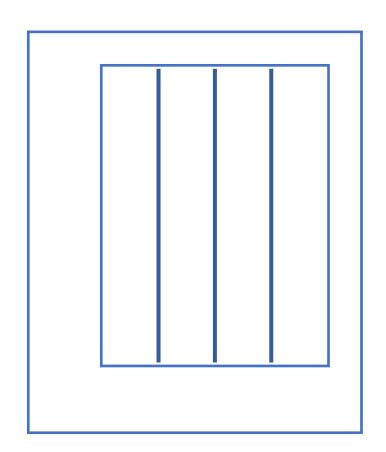




3. Repeat on the other side

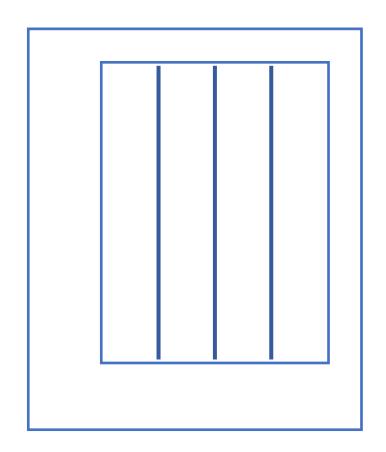


You now have a rectangle with 4 columns



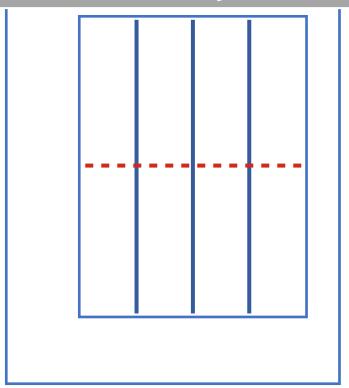


You will repeat this process for rows but will make 7 lines instead of 3



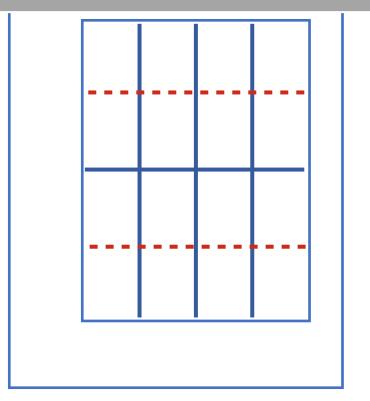


1. Draw a line across the center of your rectangle



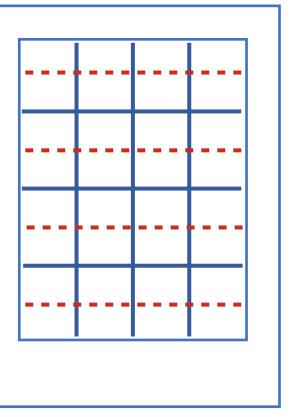


2. Draw 2 lines: 1 across each of the 2 rows





3. Draw 4 more lines:1 across each of your 4 rows

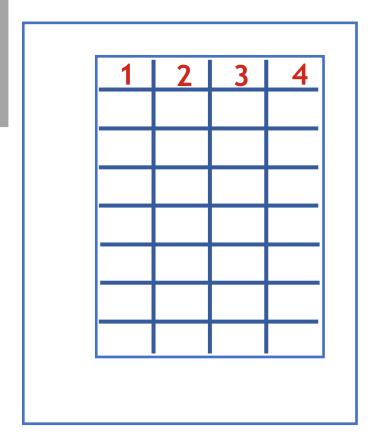




4. Check your work & add labels

1. Make sure you have 4 columns by counting across

Note: Just count, **do not** write the numbers in!





4. Check your work & add labels

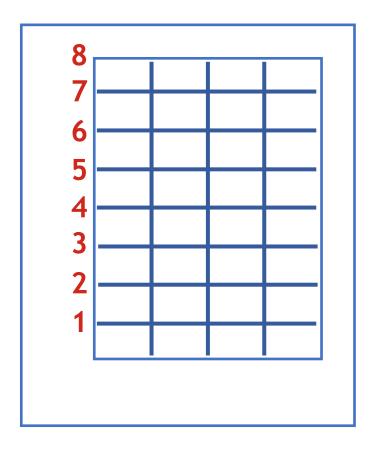
2. Make sure you have 8 rows by counting down

1		
2		
3		
4		
5		
6		
7		
8		



4. Check your work & add labels

3. Write in labels for your rows



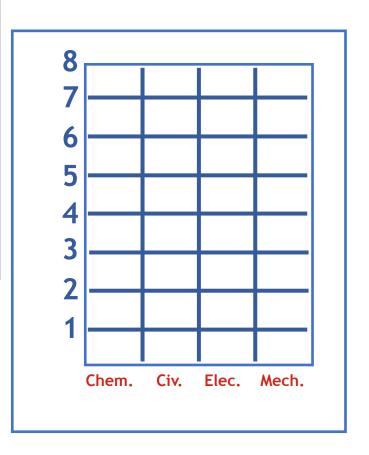


4. Check your work & add labels

- 4. Write labels for your columns. Use the 4 main branches of engineering:
- Chemical
- Civil
- Electrical
- Mechanical

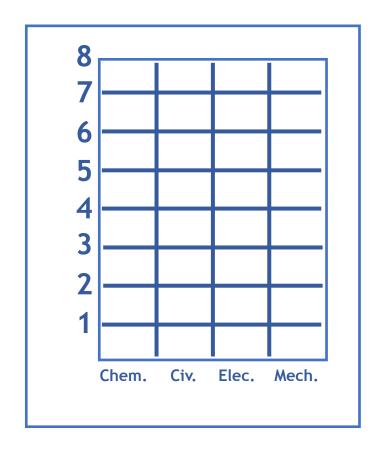
Note: If there isn't enough space to write the full words, use abbreviations:

- Chem.
- Civ.
- Elec.
- Mech.





You're ready! Now let's learn how to complete the activity!





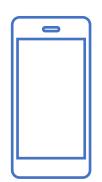
LEARN THE ACTIVITY

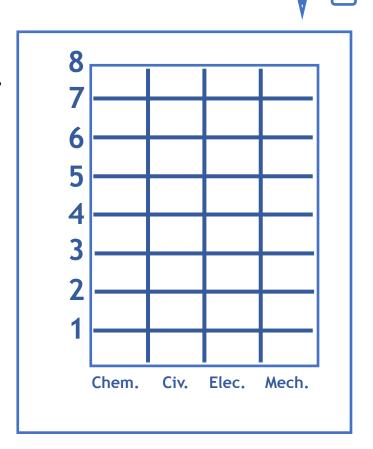


To complete the activity, you will need

- Your worksheet
- Something to color with
 - · Crayons, markers, pencils,
- A computer, tablet, or smartphone



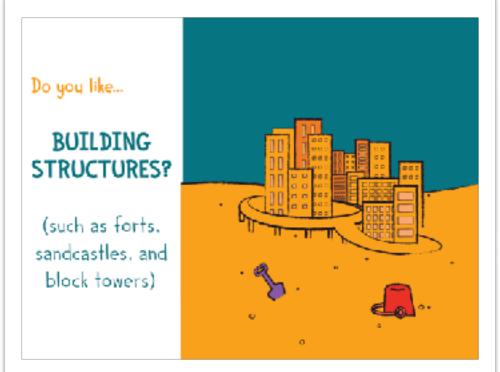




1. Open the slideshow

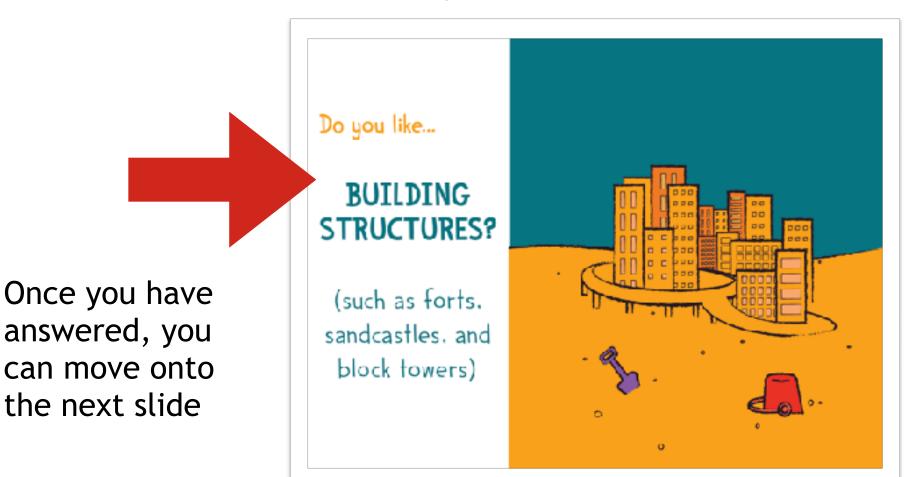
You will get the link at the end of this presentation

When you open it will look like this:





2. Answer the question!





3. Add your points!

IF YOU SAID
YES, color in a
box on your
worksheet for
each box
checked

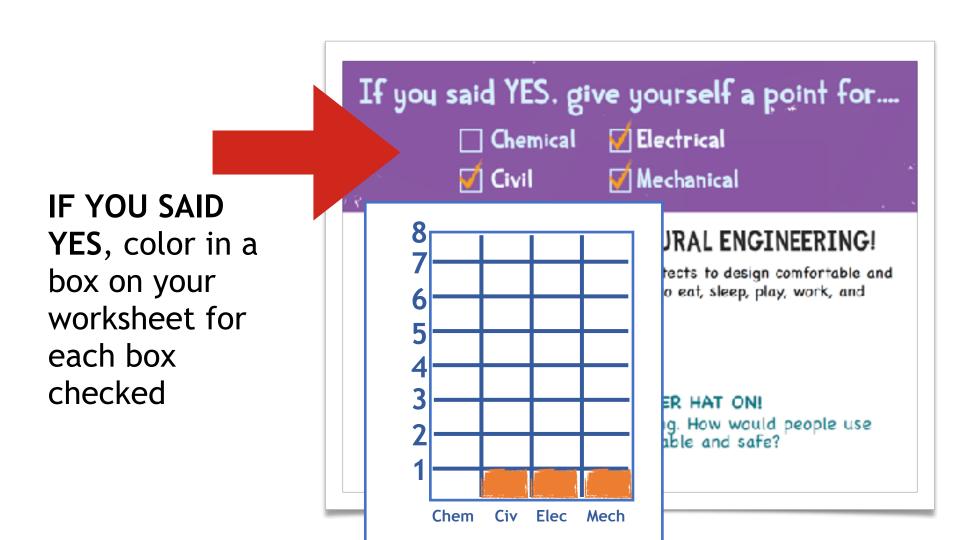


Architectural engineers work with architects to design comfortable and safe buildings. We use these buildings to eat, sleep, play, work, and more.

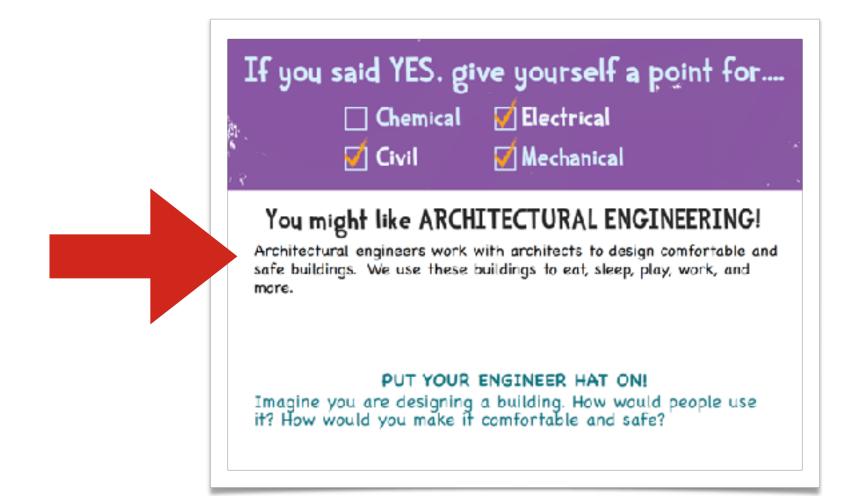
PUT YOUR ENGINEER HAT ON!

Imagine you are designing a building. How would people use it? How would you make it comfortable and safe?

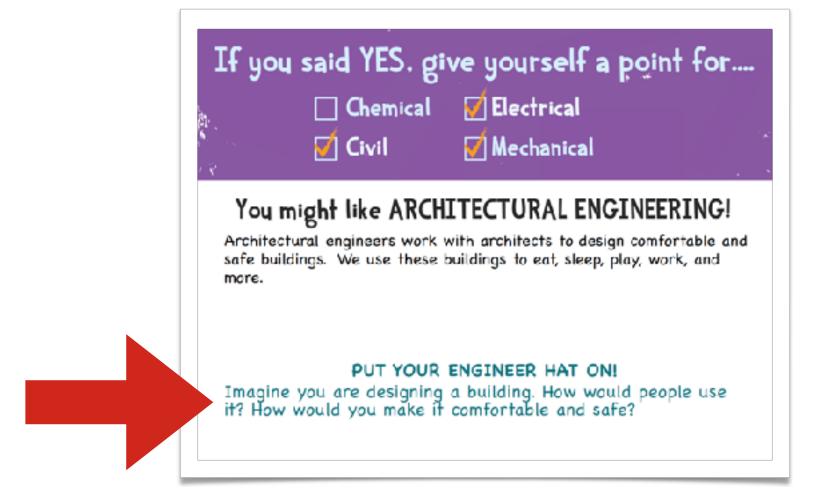
3. Add your points!



4. Learn about engineers who work on this.



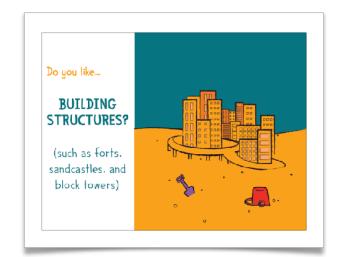
5. Explore the questions each type of engineer tries to answer



6. Repeat this for all of the slides





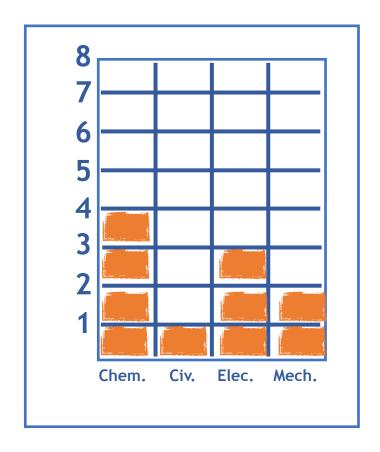






7. Review your worksheet

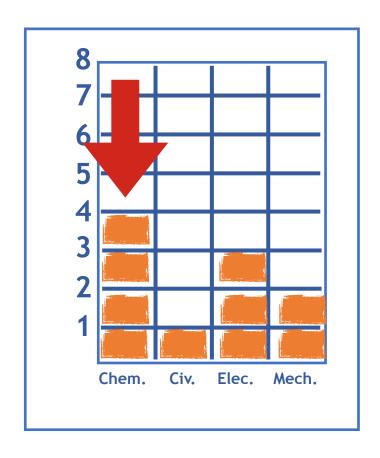
The column with the most boxes filled in is the type of engineer you are most like!



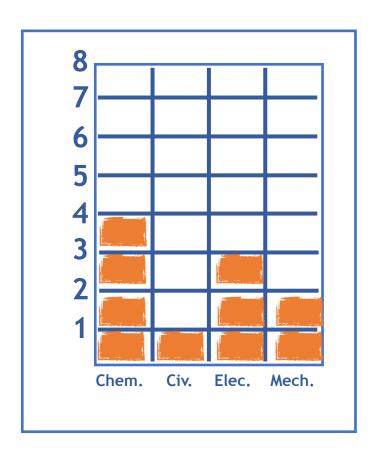


7. Review your worksheet

The column with the most boxes filled in is the type of engineer you are most like!



7. Review your worksheet



Ready to go? Click the link to start!

https://www.slideshare.net/secret/ 2NRQDpdNFRwRW3