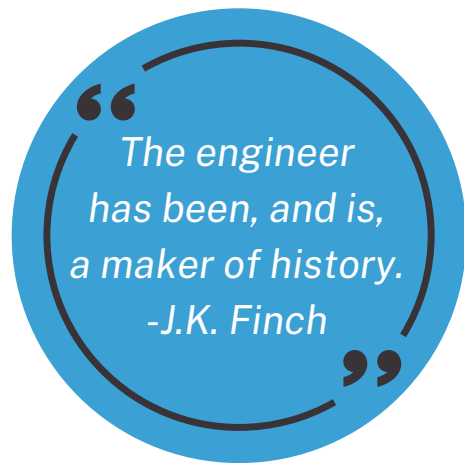


Name: _____

Date: _____

WHAT IS ENGINEERING?

Engage: Read the quote below. Then answer the questions that follow.



Using your background knowledge, write down your own definition for engineer. What is an engineer? What do they do?

What do you think the quote means?

Explore: Your teacher needs a new cell phone stand for their desk. The stand should keep the bottom of the phone at least 2.5 cm off the desk and be able to support the phone in the landscape (horizontal) orientation. How could you create one using the provided materials? Sketch your idea below.

A large, empty rectangular box with a light gray border, intended for students to sketch their ideas for a cell phone stand.

Explain: Learn more about engineering by watching "[What is Engineering?](https://tinyurl.com/mtz3u84j)" (https://tinyurl.com/mtz3u84j) by Explorist and answering the questions below.

Stop Time	Question	Answer
0:20	1. What are 3 things you use daily that are the product of engineering?	
1:14	2. What of the following is the the best definition of engineering?	a. Constructing roads and buildings b. Inventing, designing and building things to solve problems c. Studying the natural world
2:28	3. Name 3 types of engineers.	
8:48	4. Describe one amazing marvel of engineering.	

Write a three sentence summary of what the video was about.

Elaborate: Visit Science Buddies' "[Engineering Careers](https://tinyurl.com/yc3y8zzp)" (https://tinyurl.com/yc3y8zzp). Choose one type of engineering to learn more about. Read the information and answer the questions below. Be ready to share what you learned.

Which engineering career did you research?

What type of work does this engineer do?

Tell one interesting fact about this type of engineering.

Is this a career that interests you? Why or why not?

Evaluate: Summarize what you've learned about engineering by responding to the prompts below.

In your own words,
what is
engineering?

Name 5 things you
used today that
are products of
engineering.

Why would
someone say
engineers are the
"makers of
history?"