

## Please use the following resources to learn about the engineering process and bridges!

<u>Watch this Video</u>: <u>https://www.youtube.com/watch?v=fxJWin195kU</u> and then answer these questions:

- What is an engineer?
- What's the first step of the engineering process?
- What does an engineer do if their first idea doesn't work?

## Activities:

1. Watch this video and follow the instructions to make your own sturdy paper bridge! <u>https://www.youtube.com/watch?v=XfQYqvC5phk</u>

You will need:

- 1 sheet of paper
- 2 books, markers, blocks, or any other 2 objects of the same height for propping up your bridge
- Several coins (or other small weights)

After testing the bridge designs in the video, try out some of your own! How many coins can a single sheet of paper support before collapsing? What designs work best? Keep testing different designs and ideas!

## Make observations & use Claims, Evidence, and Reasoning!

- 1. **Claim**: Engineers and inventors often fail many times before they succeed.
  - Evidence:
  - Reasoning:
- 2. Claim: Modern devices (such as telephones) have gone through the engineering process many times.
  - Evidence:
  - Reasoning:

