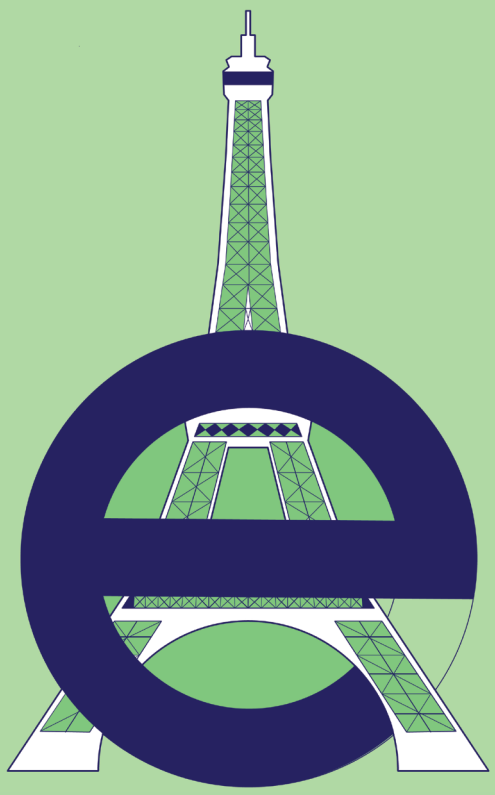
E for Eiffel Tower



Fun Facts

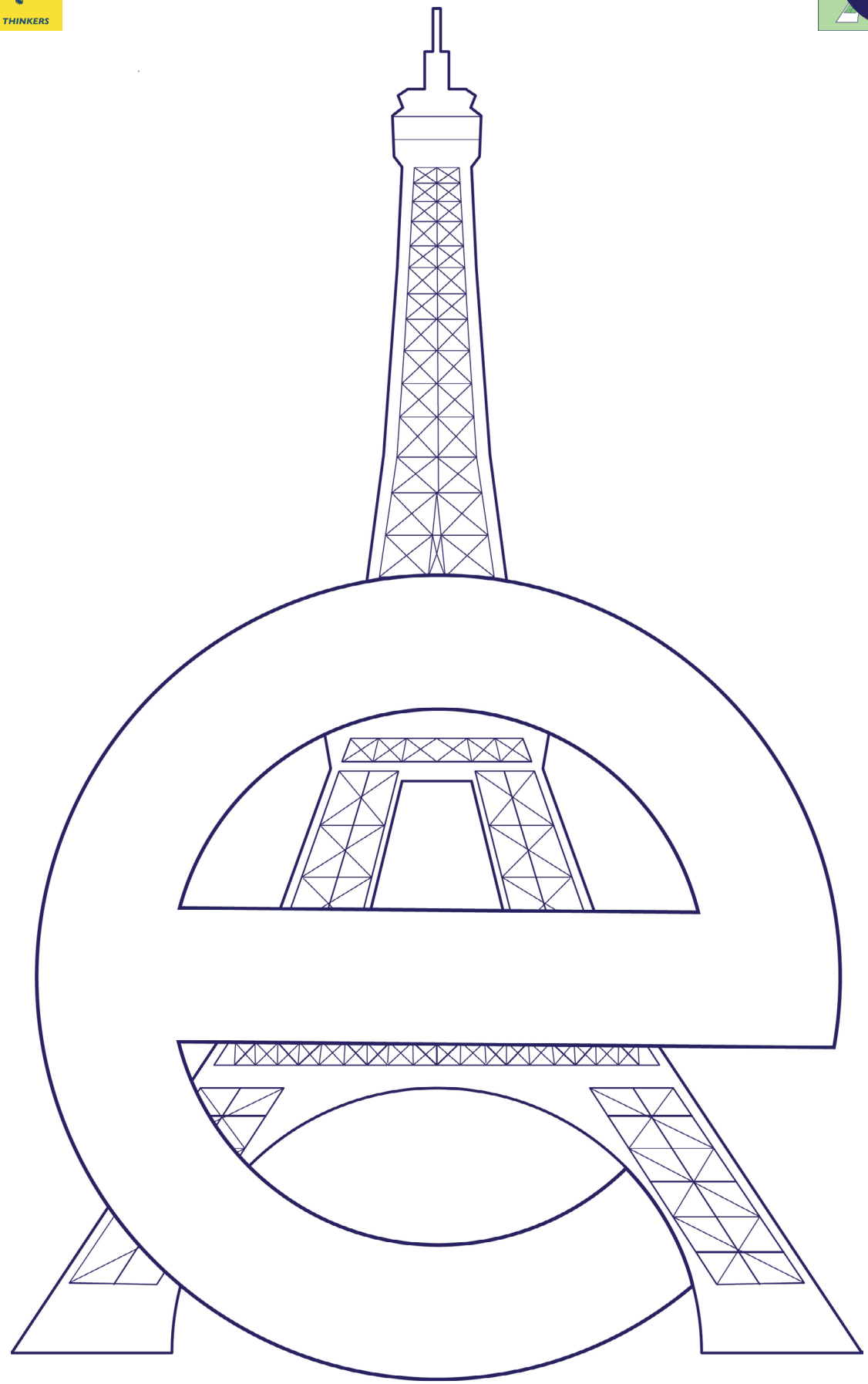
1. The Eiffel Tower was designed by French civil engineer Gustave Eiffel, his team and architect Stephen Sauvestre.

2. It was the tallest man-made structure in the world at 320 meters high for **41 years** before being surpassed by the Chrysler Building in New York (our letter C!).

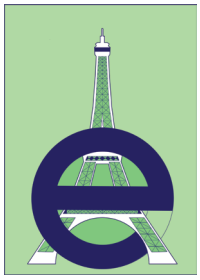
3. The French nickname for the tower is La dame de fer which means **'the iron lady'.**

4. Every seven years the tower is repainted and uses **60 tons of paint**!

Colour me in



Engineer



An engineer is someone who helps figure out how and why things work. They are trained to test, question, design and analyze. Engineers work with many other disciplines and are often part of a larger team. There are many types of engineers who help to shape our world. Can you find out what different types of jobs engineers do?

Eiffel Tower

The Eiffel Tower was expertly designed and project managed. Each piece was pre-made and designed according to how much wind was going to push against each piece. There were 5,300 drawing sheets that specifically explained every part. The construction was based on four man teams to tighten each rivet and the tracks that carried the pieces up the tower were then used to carry visitors. The structure is efficient and clever and a great example of an engineering advancement. Can you figure out how to make your own tall tower?

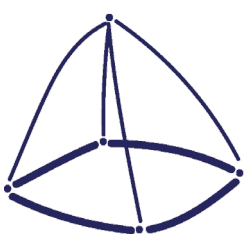
Activity

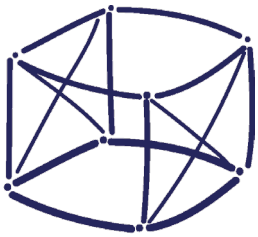
How tall can you build a tower of pasta?

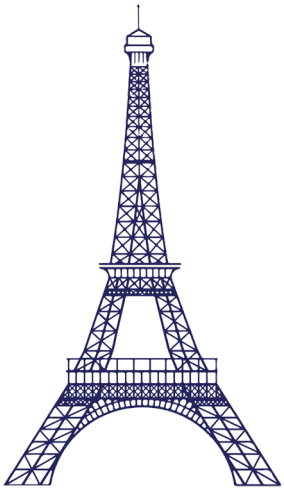
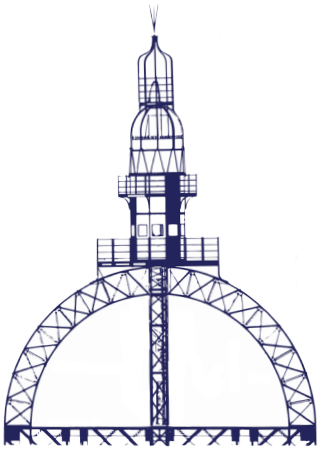
Use uncooked pasta and tape, blue tack or marshmallows as your connection points.

Tip

Think like an engineer:
If your tower is not standing tall, try and identify the problem.
You may consider using a pyramid or cube shape as inspiration.





Fan Fact

The tower was initially designed to stand for only 20 years after the Paris Exposition in 1889 as the original competition rules stated it had to be easy to dismantle. However, it became valuable for communication purposes and so was allowed to remain and has now become a symbol of Paris.