

Structures- Stability and Strength

What should I already know?

- A structure is something that is built to do a job

Key Vocabulary

Better	Nicer, easier to use or lasts longer.
Compare	To say how things are the same or different.
Design	To make, draw or write plans for something.
Explain	Tell someone about something clearly.
Freestanding	Can stand up on its own.
Product	Something that people make to sell or use.
Stable	Not likely to topple over.
User	The person that something is made for.
worse	Less nice, harder to use or breaks easily.

Aspirational Figure

Isambard Kingdom Brunel

He was an engineer

He designed some of the most famous bridges, tunnels, railways and boats in the world.

His designs changed the lives of many people.

He lived around 200 years ago, during the Victorian age.

Key Objectives I will learn

To explore stability by balancing.

To explore wide or narrow bases by building towers.

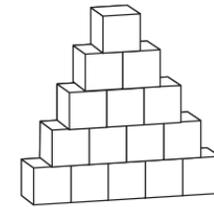
To test a structure's stability with weight added in different places

To design a stable structure that meets the needs of a user.

To use a variety of cutting and joining techniques to make a stable product

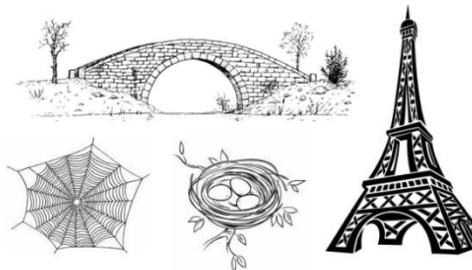


Structures with a narrow base are **unstable**.



Structures with a wide base are more **stable**.

Human and animal structures:



Putting extra weight at the **top** makes the structure **unstable**.



Putting extra weight at the **bottom** makes the structure more **stable**.