



Key Vocabulary

Word	Meaning
Design	To generate , develop and communicate ideas for a product
Evaluate	To judge how a product meets a criteria
Structure	Something that holds something else up
Freestanding	Something that stands on its own
Stable	An object which does not fall over easily
Material	Objects are made from different materials (wooden table, metal knife)
Joining	A place where two or more things are connected together
Fastening	Something that closes or secures
Weak	An object that will break easily

Equipment you will use

We will use a range of different **materials** to help us create a **freestanding structure**. Here are some of them.

scissors

straws

cardboard

lollysticks

string

pipe cleaners



Joining techniques

Successful **joining techniques** will help to make our models **stable**.

Our models need to be **stable** so they can be **freestanding**. This means they will be able to stand up on their own.



This chair is a **freestanding structure**. **Joining** techniques have been used so parts of the chair come together to make it **stable**.



Freestanding structures

Structures are built for a purpose.

They can be large or small.

Freestanding structures need to support their own weight.

They need to be well designed, which means they should be **strong** and **stable**.



Impressive design structures

Burj Khalifa (Dubai) – the largest **freestanding structure** in the world.



The Shard (London) – an impressive skyscraper that is a **freestanding structure**.



Extending your learning:

1. Find free standing structures in your local area.
2. Visit London and see some impressive freestanding structures.
3. Find out who designs different freestanding structures.