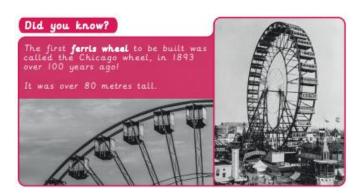
Structures and Mechanisms

Build a ferris wheel with comfortable seating

Mechanisms vocabulary

A long straight piece of material which connects to a rotating component (e.g. the wheels of a car).
To add details to a design to improve its appearance.
When you look at the good and bad points about something, then think about how you could improve it.
A ride at a fairground which carries passengers around a large vertical wheel.
The container which carries passengers around the ferris wheel.
The parts of an object that move together as part of a machine.
Object does not easily topple over.
Something that is not easily broken (e.g. wood, brick, building).
To find out whether something works as it should.
Material that does not allow water pass through it.
Something that is easily broken (e.g. eggshells).



Structures vocabulary

Function	How something works.
Man-made	Made by people.
Mould	To form different shapes out of soft, squishy materials.
Natural	Found in nature e.g. spider's web, sheep's wool.
Stable	Object does not easily topple over.
Stiff	A material or object that does not bend easily (e.g. wood).
Strong	Something that is not easily broken (e.g. wood, brick, building).
Structure	Something that has been made and put together and can usually stand on its own (e.g. a building, a bridge, a chair).
Test	To find out whether something works as it should.
Weak	Something that is easily broken (e.g. paper, egg shells).

Materials have different properties. Your **ferris** wheel design will need to be **stable** and **strong**. Which materials could you use?



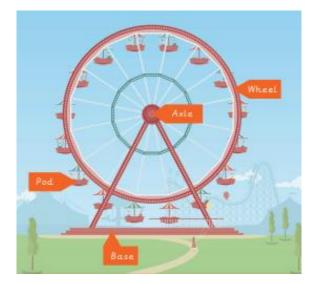
Bricks are made from clay. They are stiff and **strong**.



Wood comes from trees. It is **strong** and flexible.



Metal comes from ore, that is mined underground. It is **strong** and hard.





Often **structures** have a certain **function**, they are made to do something. e.g. Chairs are for sitting on.