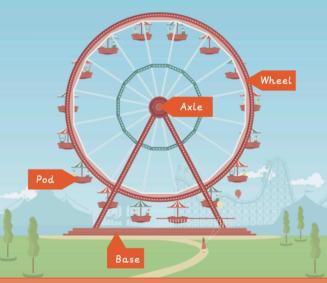


Year 2 - Mechanisms - Fairground Wheel - Term 2

Key Vocabulary

A long straight piece of material which connects to a rotating component (e.g. the wheels of a car). Axle Decorate 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. Evaluation A ride at a fairground which carries passengers around a large vertical wheel. Ferris wheel Ferris wheel The container which carries passengers around the ferris wheel. pod The parts of an object that move together as part of Mechanism a machine Stable Object does not easily topple over. Something that is not easily broken (e.g. wood, brick, Strong Test To find out whether something works as it should. Waterproof Material that does not allow water pass through it. Weak Something that is easily broken (e.g. eggshells). Did you know?

The features of a **ferris wheel**.



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.

To know statements



I know how to design and label a wheel, considering the designs of others and making comments about their practicality or appeal

I know how to consider the materials, shape, construction and mechanisms of the wheel and labelling the designs

I know how to build a stable structure with a rotating wheel and testing and adapting the design as necessary

I know how to follow a design plan to make a completed model of the wheel

What can you remember from previous units?

The first ferris wheel to be built was

called the Chicago wheel, in 1893

It was over 80 metres tall.

over 100 years ago!

How can you make a stable structure out of paper, card and glue/tape?

What does assembly mean in design and technology?

Anything else you have learnt? What have you enjoyed?