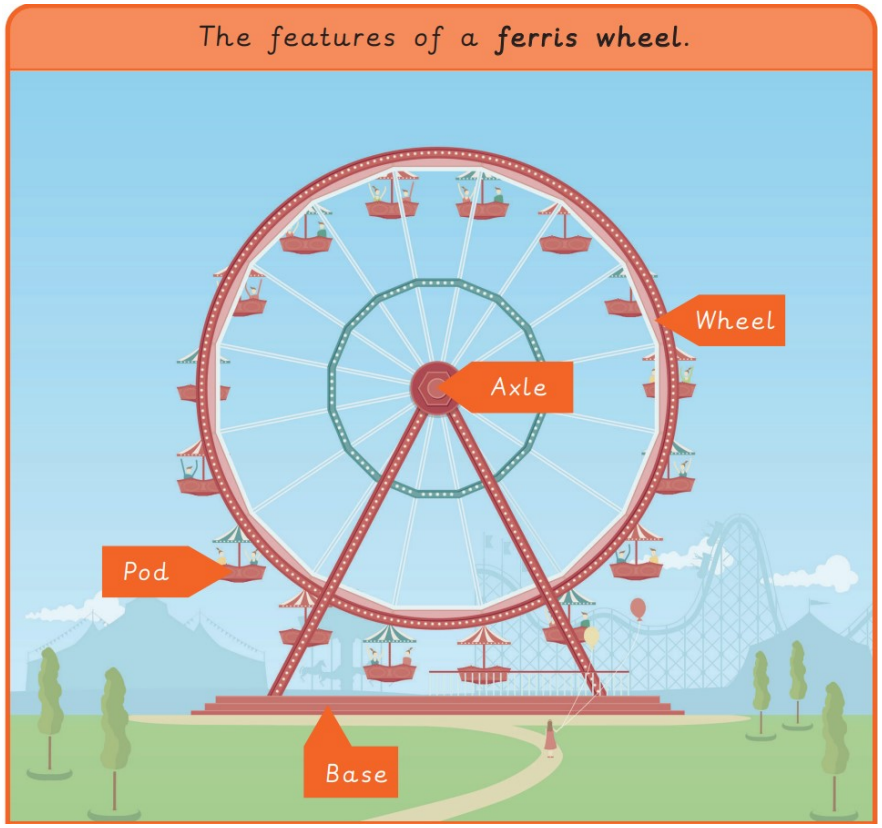
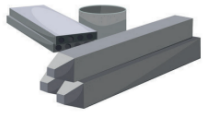
Mechanisms—How does a Ferris Wheel work?

Key Vocabulary:	
Ferris Wheel	A ride at a fairground which carriers passengers around a large vertical wheel.
Stable	Object does not easily topple over
strong	Something that is not easily broken e.g. wood, brick, building
Mechanism	The parts of an object that move together as part of a machine
Axle	A long straight piece of material which connects to a rotating component e.g. the wheels of a car

Sticky Knowledge facts:
♦ The features of a Ferris wheel are an axle, wheel, base and pods.
♦ Materials have different properties. When designing structures, you have to consider the materials suitability for the purpose e.g. are they strong, rigid or flexible?
♦ The shape and the material used to build a structure is important as this determines the structures strength and stability.
♦ An evaluation is used to review the good and bad points about something and think about how to improve it.



	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.