

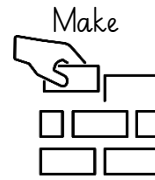
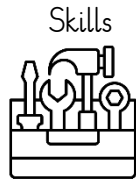
Year: 2
 Term: Spring 1
 Topic: Mechanisms - Ferris wheel



Where does this learning link to aspirations for the future?

The construction of the London Eye involved lots of people from architects to engineers and steel workers. You could train for any of these jobs and work in the construction industry.

In DT we follow this five step process.



Materials have different **properties**. A fairground wheel design needs to be **stable** and **strong**.

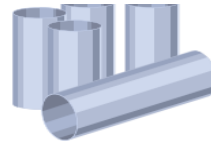
Which materials could be used?



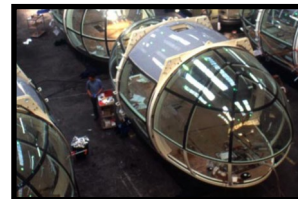
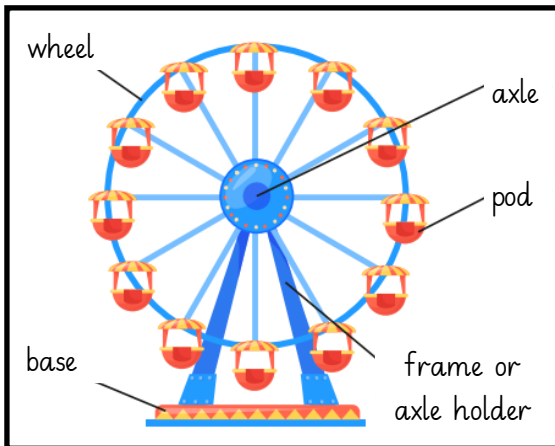
Bricks are made from clay. They are stiff and strong.



Wood comes from trees. It is strong and flexible.



Metal comes from mining ore in the ground. It is strong and hard.



Glossary

- axle** A long, straight piece of material which connects to a rotating part, e.g. the wheels of a car.
- design brief** A challenge that asks for something to be designed.
- design criteria** A set of instruction for the project.
- evaluation** Looking at what is good and bad about something and thinking about how to make it better.
- Ferris wheel** A ride at a fairground which carries passengers around a large, vertical wheel.
- mechanism** The parts of an object that move together as part of a machine.
- pod** The container which carries passengers around the fairground wheel.
- survey** Questions used to find out what people like.