

Suggested prior learning [Mechanisms: Wheels and axles](#)

### Intended outcome of the unit

Pupils who are **secure** will be able to:

- Design and label a wheel.
- Consider the designs of others and make comments about their practicality or appeal.
- Consider the materials, shape, construction and mechanisms of their wheel.
- Label their designs.
- Build a stable structure with a rotating wheel.
- Test and adapt their designs as necessary.
- Follow a design plan to make a completed model of the wheel.

### Key Vocab

design  
design criteria  
wheel  
Ferris wheel  
pods

axle  
axle holder  
frame  
mechanism

### Unit specific links:

[Knowledge organiser: DT - Y2 Fairground wheel](#)

#### Week 1

[Lesson 1: Design a Ferris wheel](#)

#### Week 2

[Lesson 2: Planning the build](#)

#### Week 3

[Lesson 3: Building the frame and wheels](#)

#### Week 4

[Lesson 4: Adding pods and decoration](#)

### Suggested Next Steps

[Mechanisms: Making a moving monster](#)