

Fairgrounds

The Big Idea

We all know that fairground rides are designed to thrill our senses, through fear, excitement and the unexpected. How are these rides powered in a way which enables them to speed up and slow down at just the right moments, whilst staying on a track that twists upside down? These mysteries will be revealed as we learn more about the science behind energy, forces, sound and light.

In Science, we'll be finding out:

- What keeps our feet on the ground
- About other forces that act upon us
- How to identify and measure forces
- How forces act on everyday life
- How to use electricity as a source of power
- About magnetism: how and why magnets work
- How light travels and how we see
- How sound travels and how we hear

In Technology, we'll be finding out:

- How to solve problems to understand how everyday objects work
- How people use technology
- How to design and make models and games

In ICT, we'll be finding out:

- How to use collaborative software for researching and sharing our learning
- How to use control technology to design, write and debug programs for a fairground ride simulation
- How to use sequence, selection and repetition in programs to create different design features for our fairground ride simulations
- How to use search engines effectively, and how to use technology respectfully and responsibly

In International, we'll be finding out:

- About fairgrounds and theme parks in our host and home countries
- How international agencies are helping to increase energy efficiency and tackle the problems of noise and light pollution
- About international aid agencies and their work