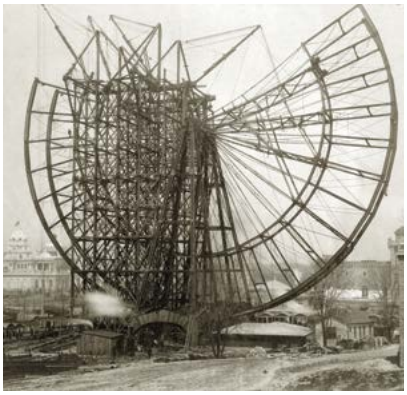

ENGINEERING EXCELLENCE

Read the article 'The Fabulous Ferris Wheel: Built in a Blink, Destroyed in an Instant' and consider George Ferris' journey from vision to creation. Answer the questions below based on the information in the article.

How did George Ferris' design relate to the mechanics of a bicycle wheel?

What were people's criticisms of George Ferris' plans for the giant wheel?

What was used to make the giant wheel turn?

Why were cabins important to include in the design of the ferris wheel?

What challenges did George Ferris face in building his giant wheel? How did he manage to overcome them?

How were passengers loaded onto the ferris wheel?

FOLLOW YOUR VISION

Just as George Ferris used the bicycle wheel as inspiration for his ferris wheel design, look for ideas in the world around you. Examine the mechanics of daily items and think about how you may apply this to a concept for a carnival ride. Brainstorm ideas below and draw your vision!

What everyday item is your idea based on?

How do the movement and mechanics relate to your ride concept?

Who is your ride best suited to? (e.g. young children, thrill-seekers)

What challenges might you face?

How might you overcome them?

Visual plan

The School Magazine

A world of words since 1916

NATIONAL SCIENCE WEEK

Activity ideas

TOUCHDOWN

How An Ordinary Young Woman Helped End a War

Create your own top secret coding system. Write a message using your code then swap with a partner so they can decode it.

Human Communication in an Alien Invasion

Research the communication methods referred to in the play and create a timeline of their use.

Amalgam

Design your own robot friend or assistant. What would you teach them about the world and human behaviour?

Crisis of Crumbs

Brainstorm ingredients and flavours that may complement each other and write your own recipe for a new tasty creation.