



# MARVELLOUS MACHINES

## TRAIL

It's hard to picture it now but Elsecar was once a noisy, busy centre of industry. Imagine the noise, steam and smells from the Ironworks, the bustle of people coming and going to the coal mine and the clattering, yammering and hammering from the carpenters and all the other workmen in the workshops.

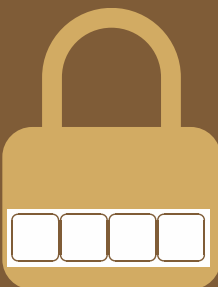
Many machines were invented here at Elsecar and the Earl Fitzwilliam also brought other people's innovative machines to use at Elsecar.

Here are some of the marvellous machines that were used here.

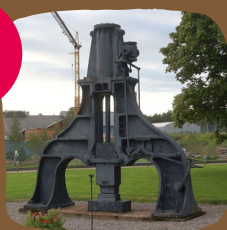
1



The Biram Lamp



4



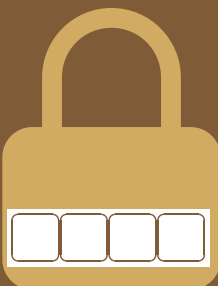
The Steam Hammer



2



Biram's Whirly Gig



5



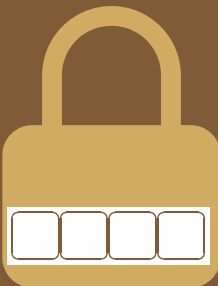
The Winding Engine



3



The Rolling Mill



6



The Newcomen Engine



Can you find all SIX MODELS of our marvellous machines hidden around the Heritage Centre?

Each machine has a hidden code written on the information card next to the model.

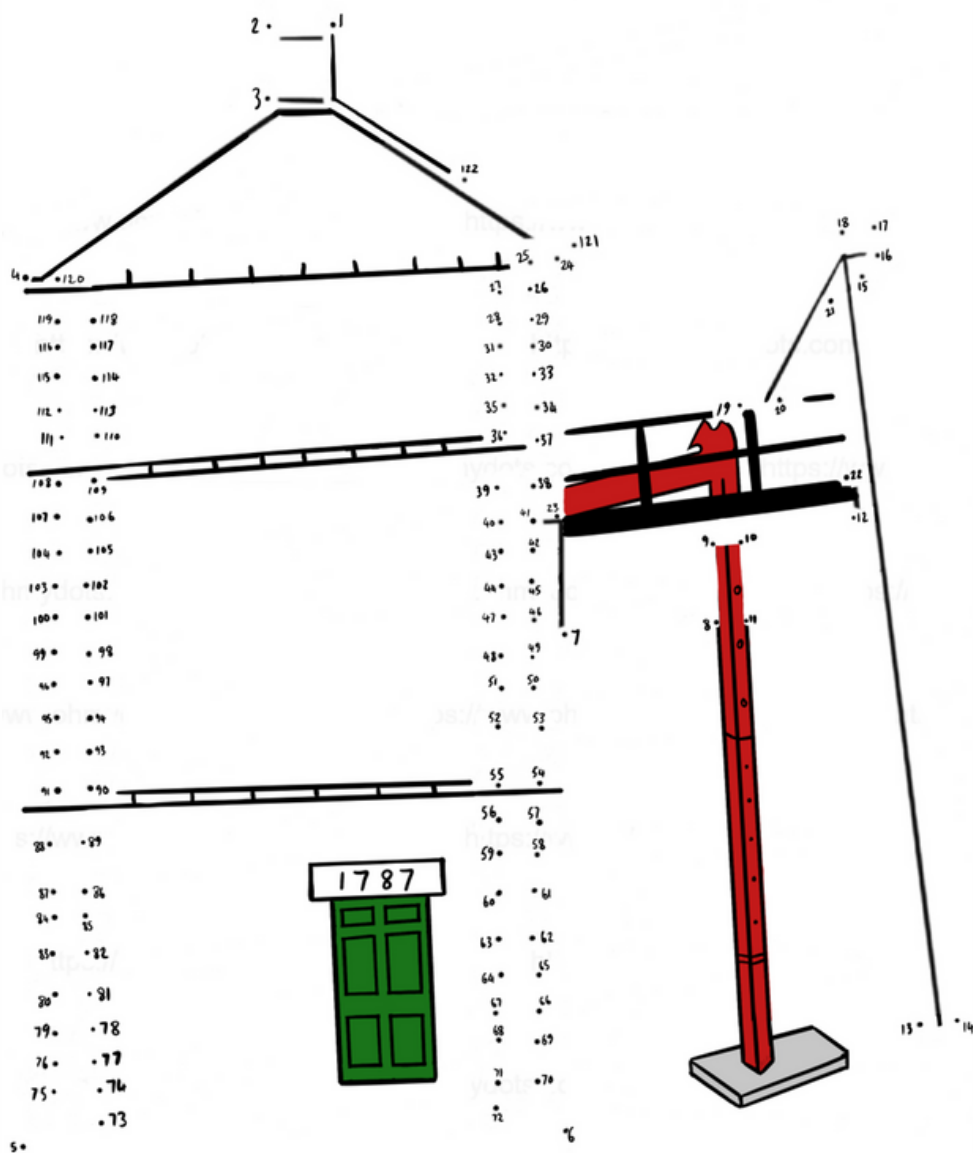
Collect all the secret codes and show them to the museum staff at the Visitor Centre to receive your inventor's sticker.

Did you know that during the Industrial Revolution, when Elsecar was in its heyday, people like the Earl Fitzwilliam sought to ensure that their businesses were the most innovative by employing inventors to develop new and exciting ways of working with iron, coal and steam?

Sometimes other business men would seek to steal these ideas to use themselves. This was called industrial espionage.

When the inventors were working on a new idea, it was kept secret so that no-one else could steal the idea and make money from it first.

Can you join up the dots to find a famous invention that you can still see here today at Elsecar?



### The Mystery of the Whirly Gig Online Comic

Read our solve it yourself comic online, decipher the clues and save the day in this time travel adventure for inquisitive kids.

Join the adventure at:

[www.barnsley-museums.com/digital/family-activities/get-immersive/the-mystery-of-the-whirly-gig](http://www.barnsley-museums.com/digital/family-activities/get-immersive/the-mystery-of-the-whirly-gig)

