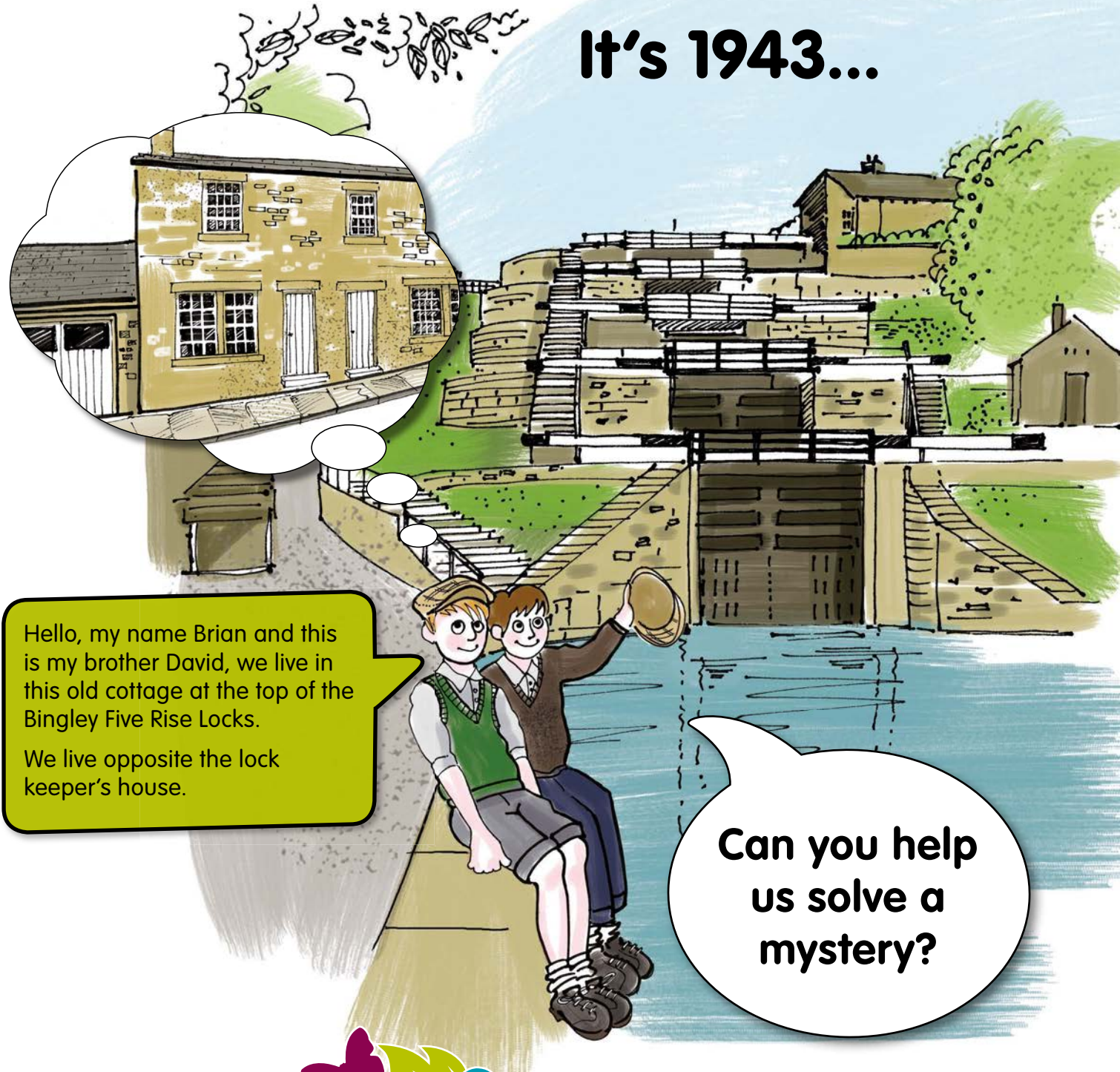


Johann The Prussian Soldier

At Bingley Five Rise Locks

It's 1943...



Hello, my name Brian and this is my brother David, we live in this old cottage at the top of the Bingley Five Rise Locks.

We live opposite the lock keeper's house.

Can you help us solve a mystery?

Visit us online at
canalriverexplorers.org.uk

Always remember to stay
SAFE near water – **Stay Away From the Edge.**

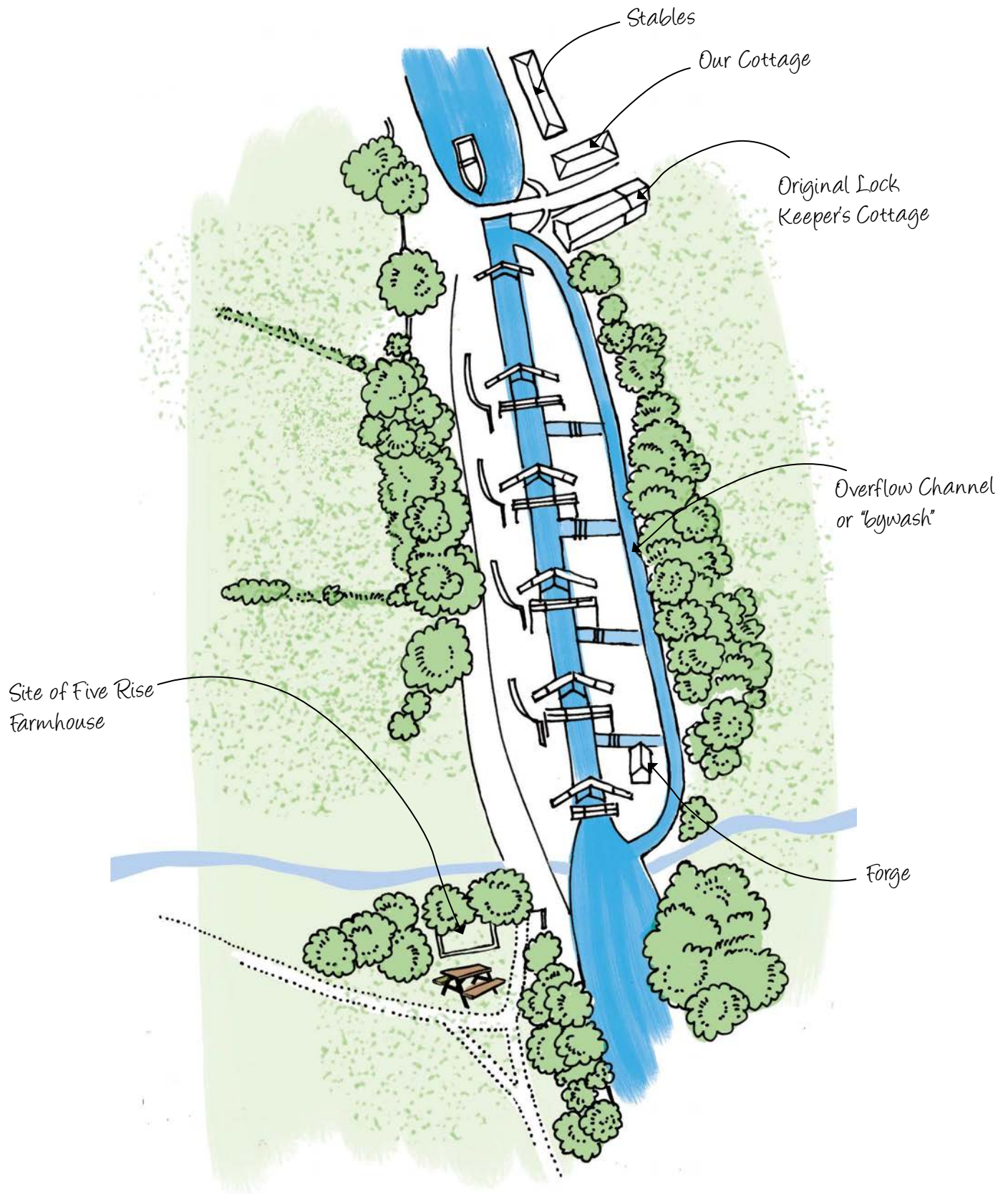


Canal &
River Trust

canalrivertrust.org.uk

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Map of Five Rise Locks

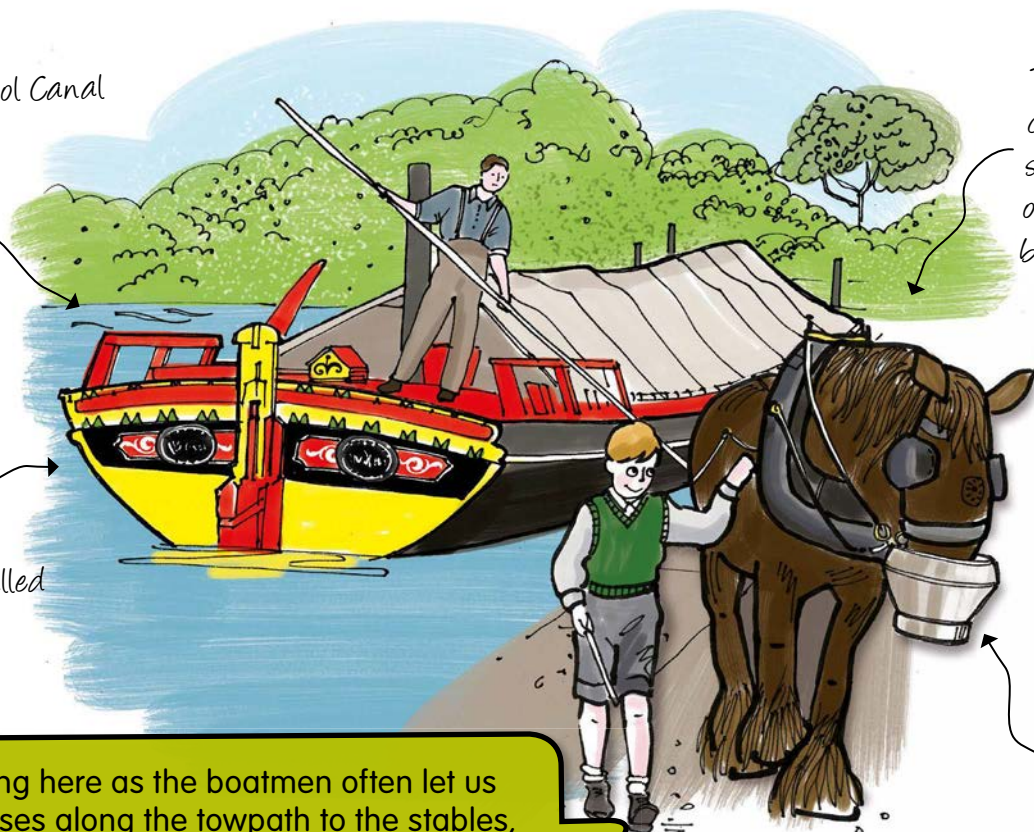


Bingley Five Rise Locks are an awesome feat of engineering. They were designed by John Longbotham, the Leeds & Liverpool Canal's first engineer. The locks opened in 1774 with a huge celebration.

Leeds & Liverpool Canal
Short Boat

This colourful
decoration is called
"Brightwork"

The big neck
collar helps to
spread the load
of pulling the
boat



It's great living here as the boatmen often let us lead the horses along the towpath to the stables, where they have food and rest overnight.

We like the boats carrying treacle best. We get treacle as a treat for looking after the horses!

The nose can is filled with food to stop the horse grazing along the towpath.

Brian says:



The boatmen give us buckets of horse manure (poo) for our dad's allotment.

Do you recognise this
building? What is it
used for now?

I think it is...

**What do you think
is in the nose can?**

Mars bar

oats

crisps

barley

The Stables at Bingley Five Rise Locks



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Can You Help us Solve a Mystery?

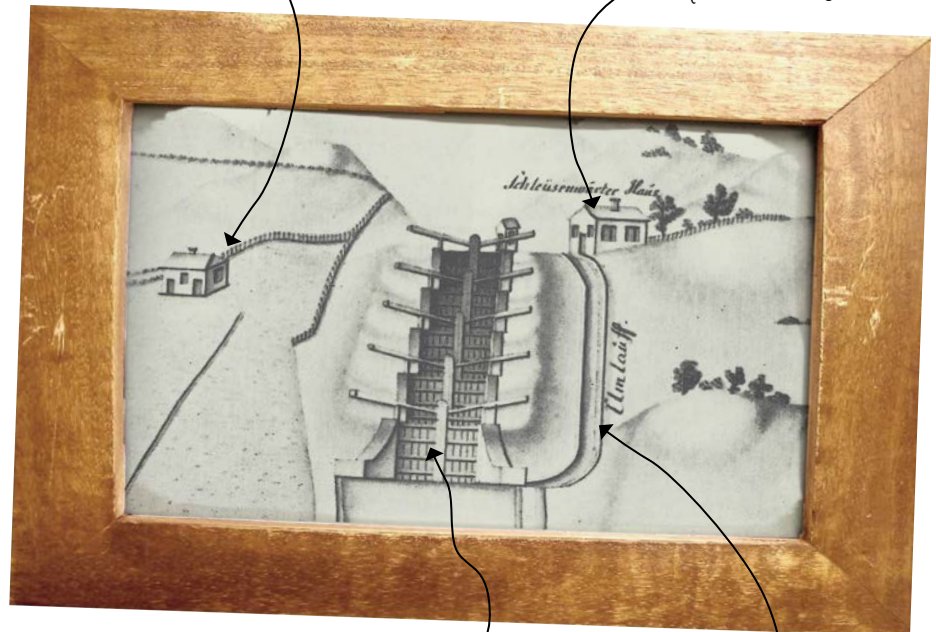
Brian says:



One day we were exploring down in the cellar of our cottage. We found this old drawing and some strange notes in a foreign language.

Five Rise Farmhouse

Original Lock Keeper's Cottage

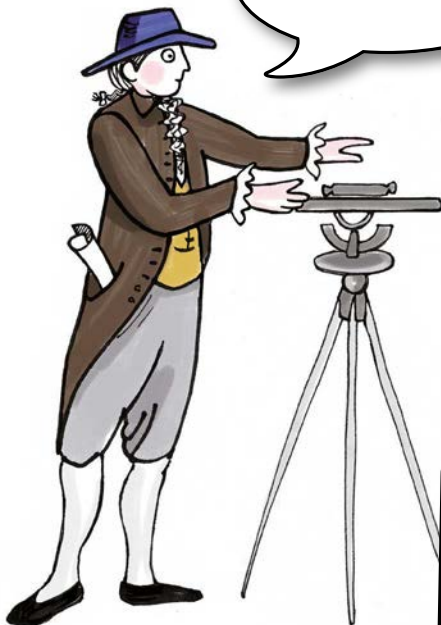


Five Rise Locks

Overflow Channel or "bywash"

This means 'Sluice Gates' in German. This was how Johann described the Staircase Locks.

"Schleusenfalls"



Our Dad tells us that the drawing is more than 200 years old and was made by a Prussian (German) soldier called Johann Hogrewe.

Why did he come all this way to draw Bingley Five Rise just after it was built?

David says:



Let's see if we can find out why the Bingley Five Rise Locks are so special?
Will you help us too, by looking for clues?

Johann Hogrewe
Soldier and Engineer



Let's ask **Eddie Murgatroyd the lock keeper** who lives in the house opposite us, at the top of the Five Rise Locks.

Brian says:



Eddie why do you think the locks are really special and why would someone come all this way to draw them?

Maybe it's because they are the steepest flight of locks in Britain lifting boats around 18 metres (60 feet).

Looking for clues

This bit is all that survives from the original lock keeper's cottage marked on Johann's drawing.



Eddie says:

Funny shaped end wall

Fascinating Fact

Eddie's house wasn't built when Johann made his drawing. His house was added to the original lock keeper's cottage in the 1880s.

Can you find Eddie's house and mark it on your map?

This is our cottage

This is the original lock keeper's cottage

This is Eddie's house

Strange but True

Moving house... Eddie's house was originally a warehouse in Liverpool. It was brought stone by stone on a canal boat from Liverpool.

Why do you think it has a funny shaped end wall?



Let's go and ask **Mr Hodgson the carpenter** who makes the bridges and repairs the lock gates in his workshop next to the locks.

David says:



Mr Hodgson, why do you think the locks are really special?

Mr Hodgson says:



They are very impressive and the lock gates are the tallest in Britain.

People wanted to understand how they worked.

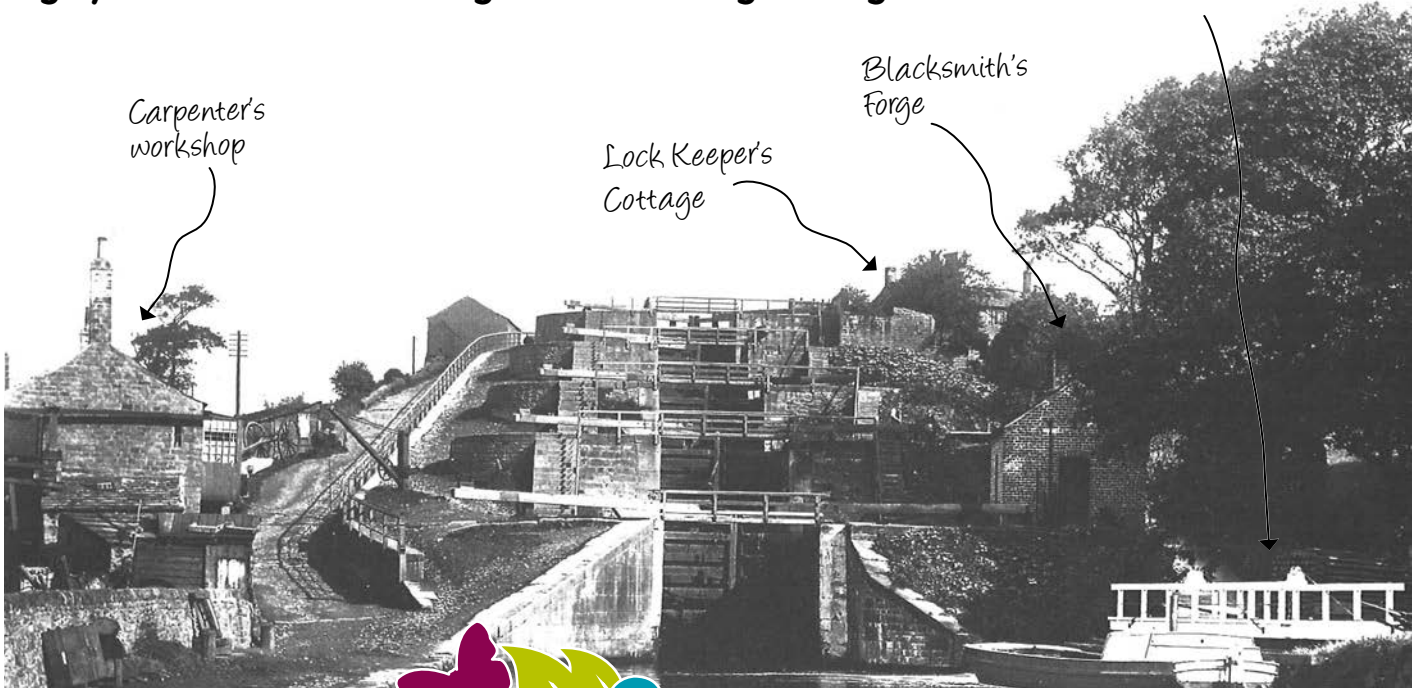


Well boys they are a great work of engineering skill and craftsmanship.



Swing bridge waiting to be transported by boat.

Bingley Locks around 1890 - a great work of engineering



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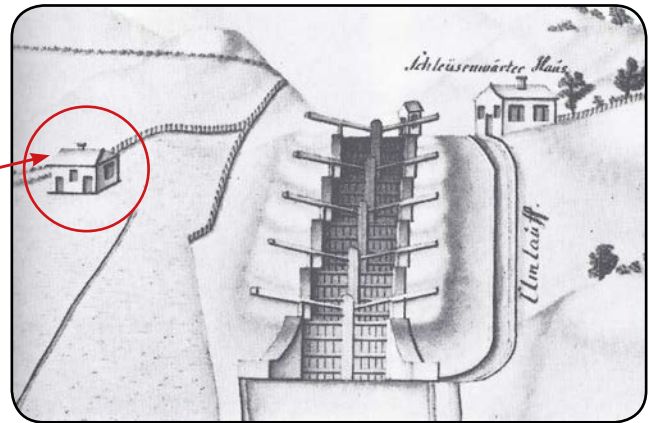
Come on, let's go and see '**Fred the Egg**' in **his farmhouse** by the locks. Johann marked the farmhouse on his drawing, its the 1940s now, so it must be **over 200 years old**.



Why do you think the locks are really special and why would someone come all this way to spy on them?



Five Rise Farmhouse around 1900.



Johann Hogrewe's drawing of Bingley Five Rise Locks.

Fascinating Fact

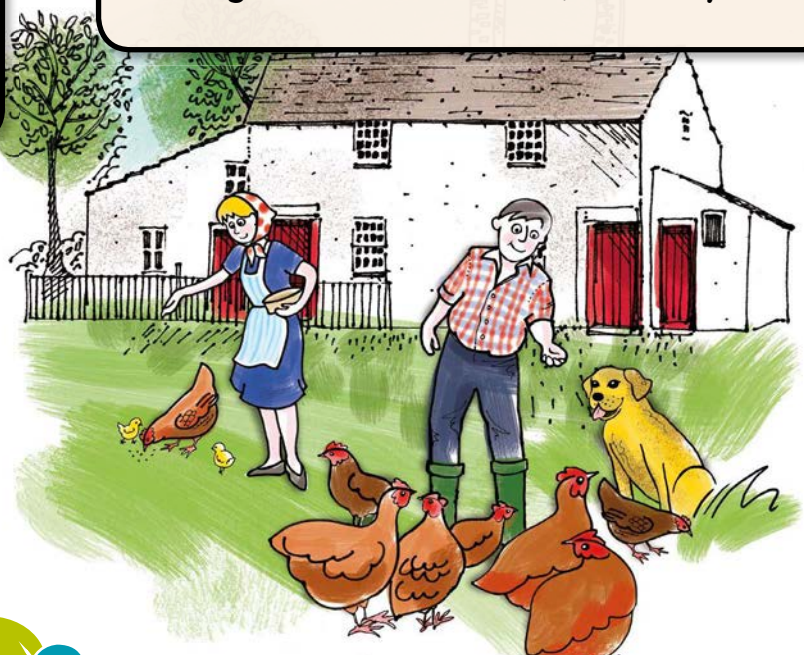
Johann's drawing isn't very accurate. Maybe he did some of it from memory? They didn't have cameras in the 1770s! **Try making your own drawing of the Five Rise Locks, it is really hard.**



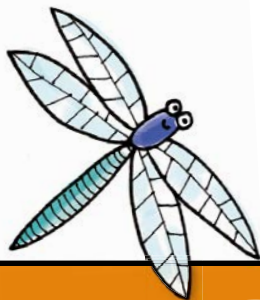
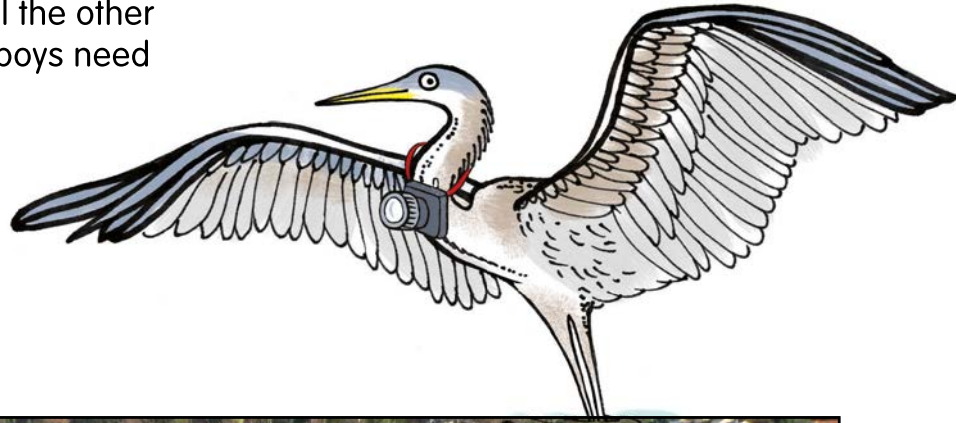
The locks solved a big problem - how to get boats safely up and down steep slopes.



The boatmen buy our eggs, so that keeps us happy!



The **heron on the North Bog** and all the other birds and dragonflies say what the boys need is a '**bird's eye view**' of the locks.



The Answer!

All is revealed, the reason the Johann drew the locks was simply that they looked so impressive climbing up the side of the valley!

Bingley Five Rise Locks are amazing - a Wonder of the Waterways!



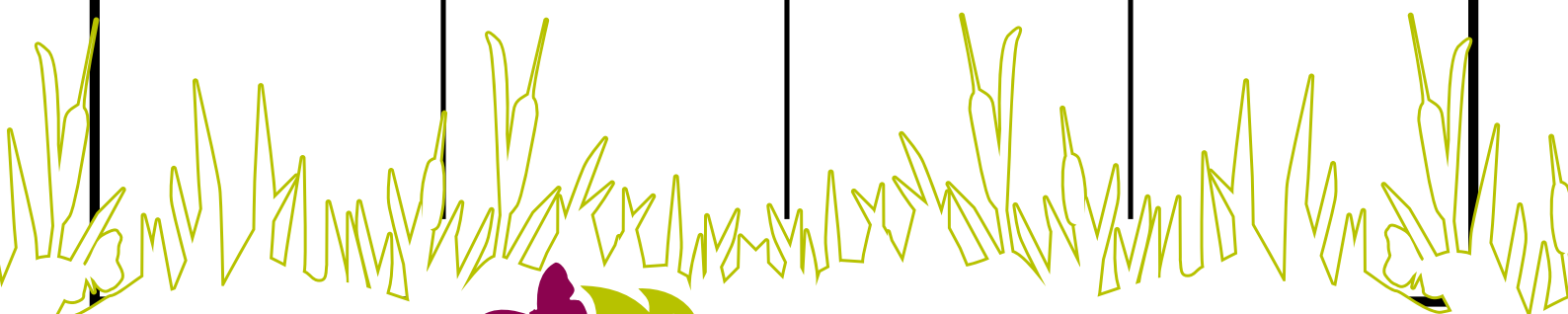
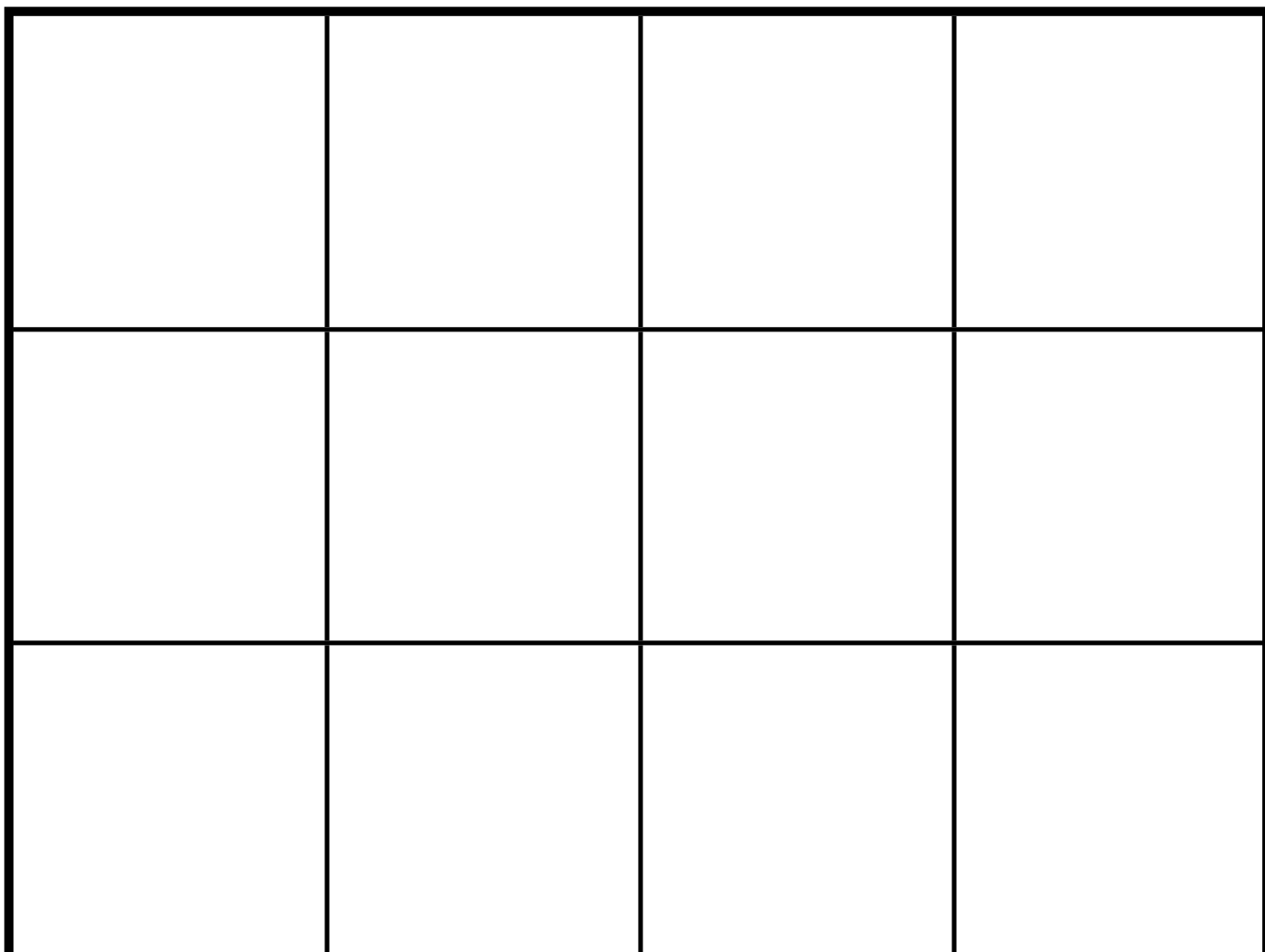
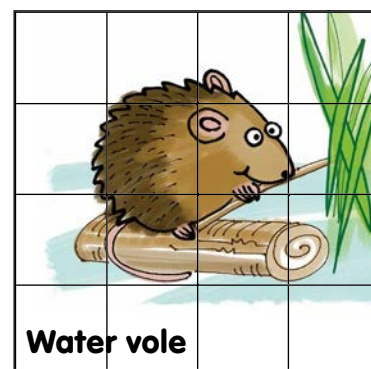
What's The BIG Picture?

Be Inspired by Bingley Locks on The Leeds & Liverpool Canal

Using your powers of observation as a canal explorer,
copy the small picture using the grid to help you.

TIP: Try to copy one square at a time to make a bigger picture.

When you've finished, colour in your picture.

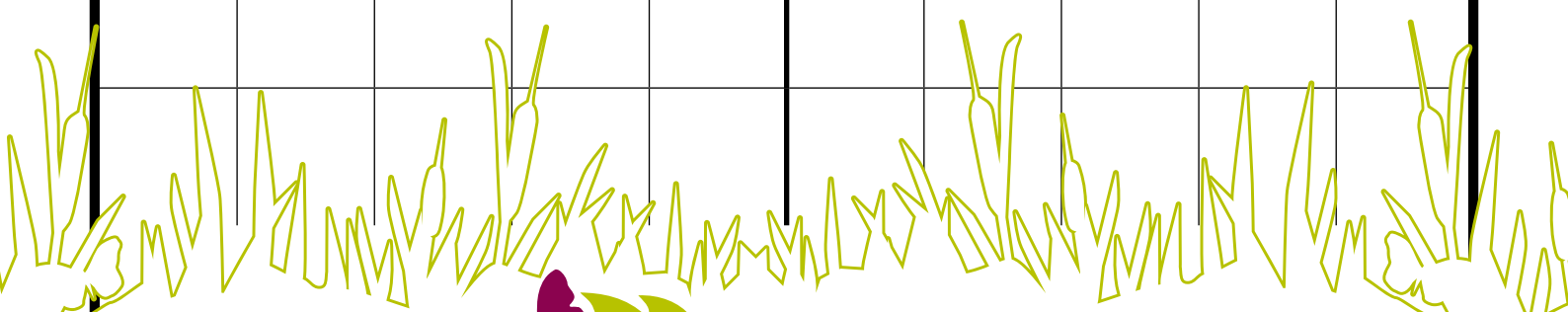
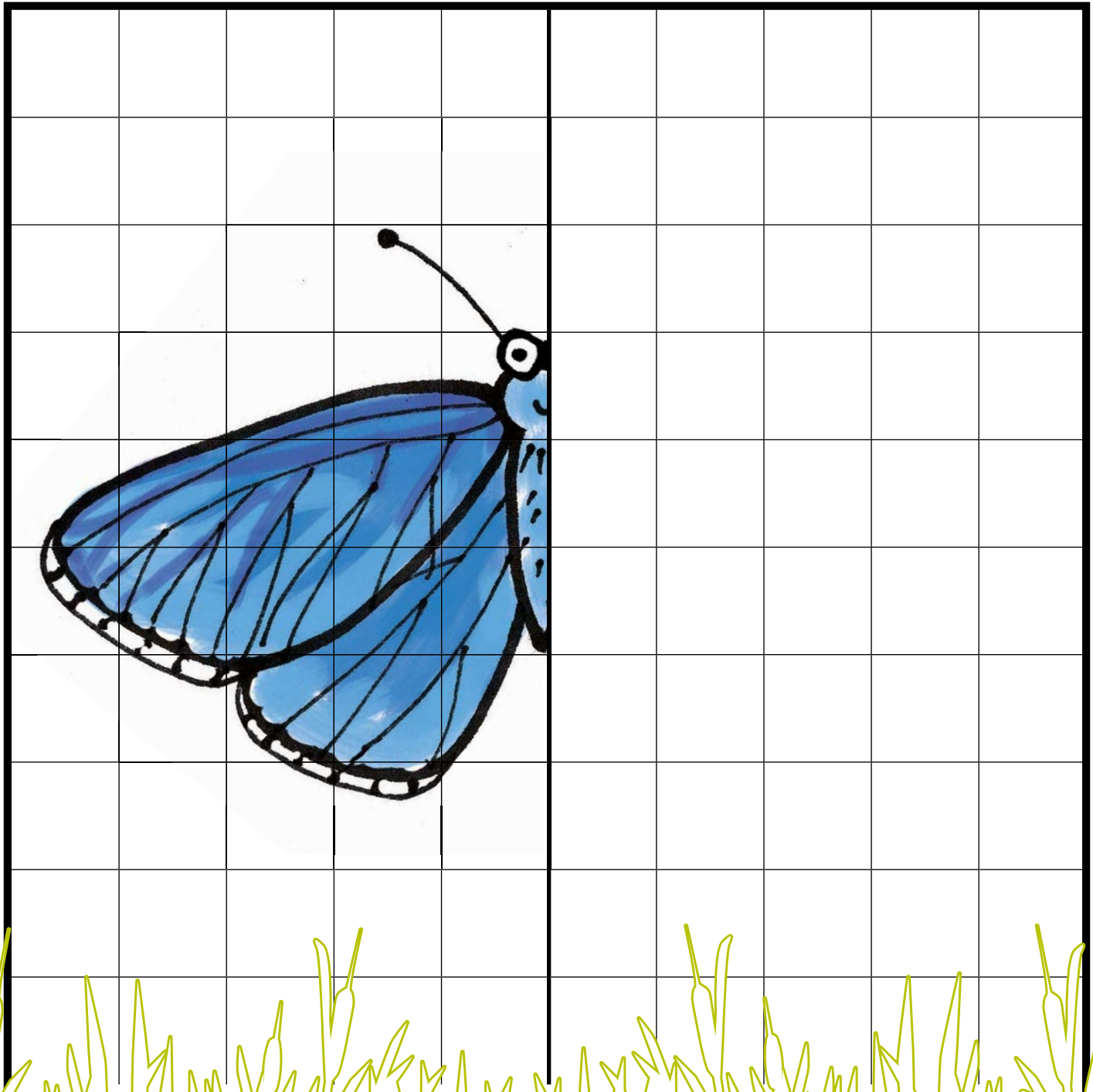


The Other Half

Be Inspired by Bingley Locks on The Leeds & Liverpool Canal

Use your powers of observation to draw the other half of this picture, copying square by square. When you've finished, colour in your picture.

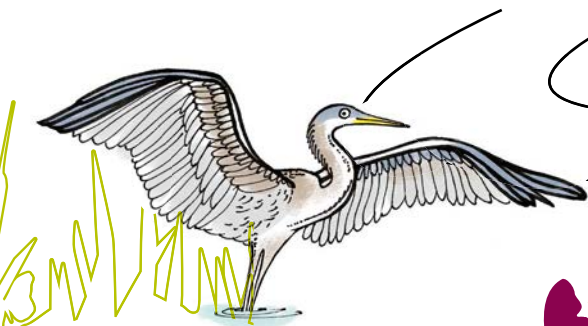
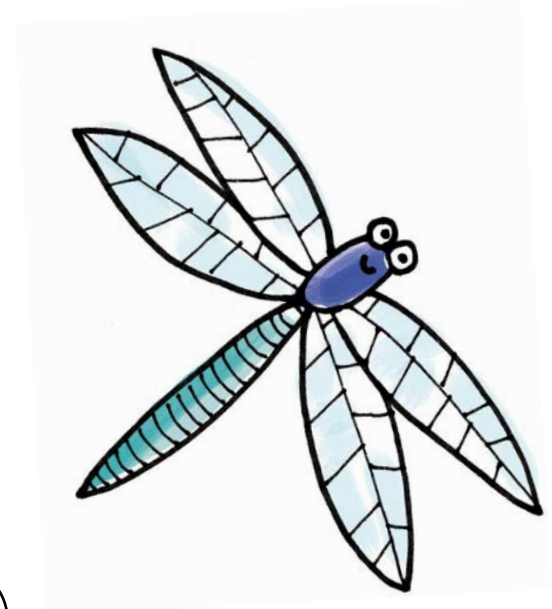
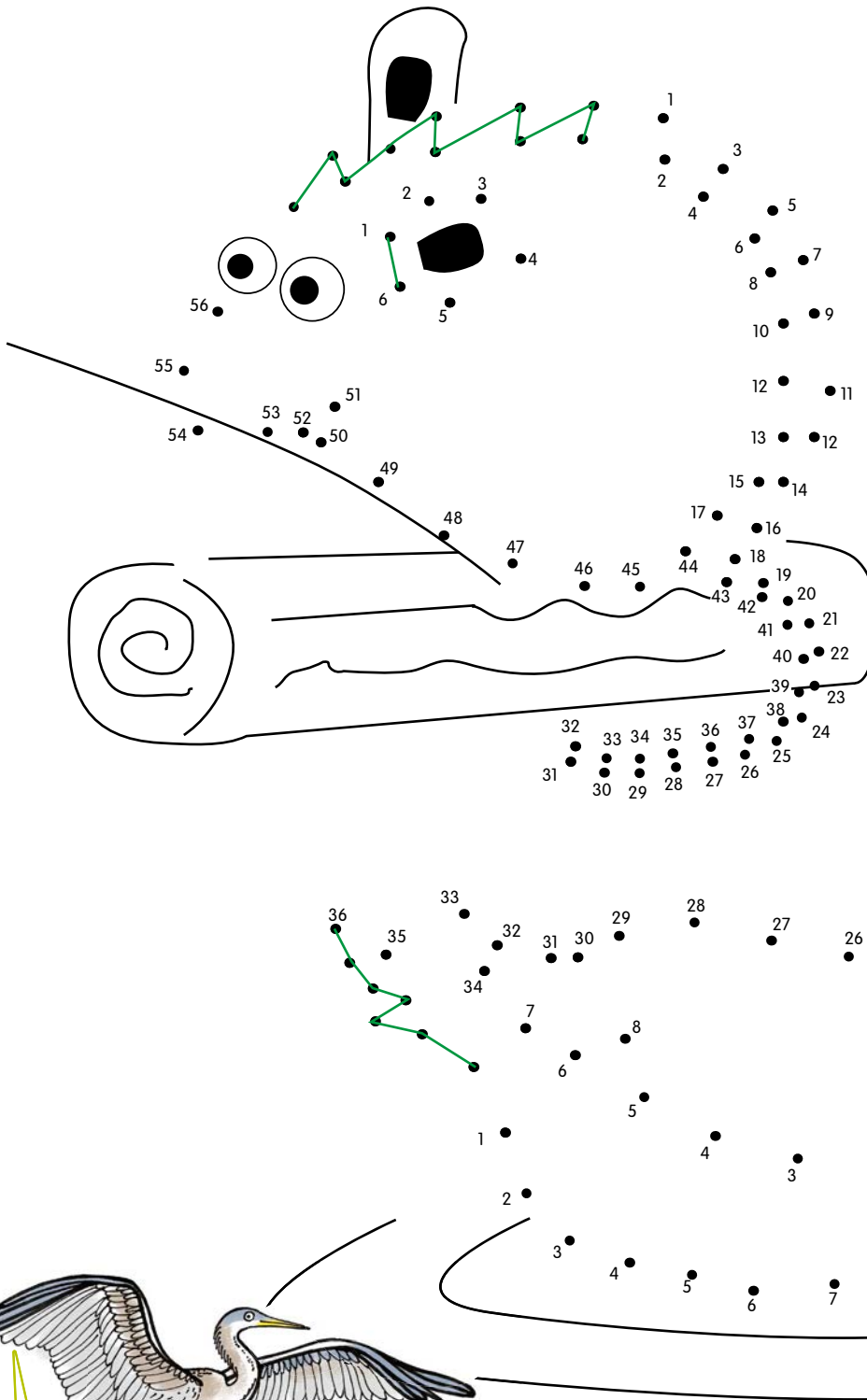
Common blue



Dot - To - Dot

Starting at number one, connect the dots to complete the missing picture.

Butterfly, water vole or white goose - What is the missing bird or animal?



Colouring In

Be Inspired by Bingley Locks on The Leeds & Liverpool Canal

