

Home Learning Pack

Year 6

Thursday 11.11.21

Maths – Fractions

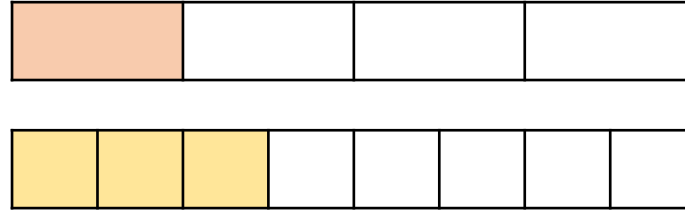
Add and subtract fractions activity

Here is a link with videos to support you with this topic.

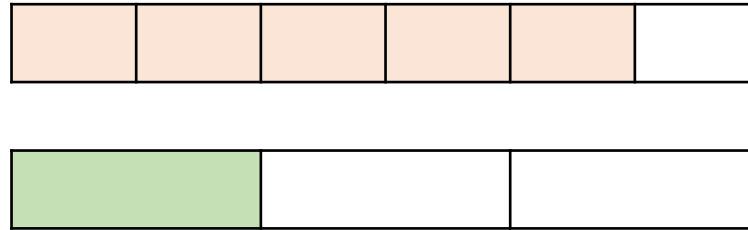
[Autumn Week 10 - Number: Fractions | White Rose Maths](#)

Start where you feel comfortable in the math's activities and choose your level of challenge.

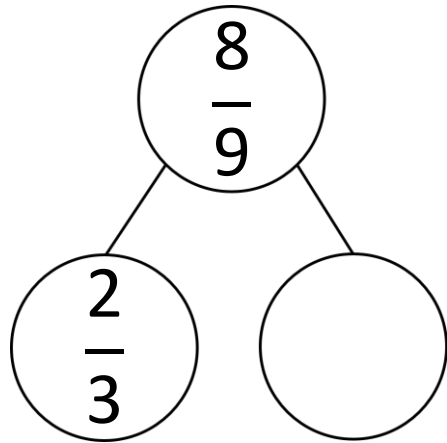
1) $\frac{1}{4} + \frac{3}{8} =$



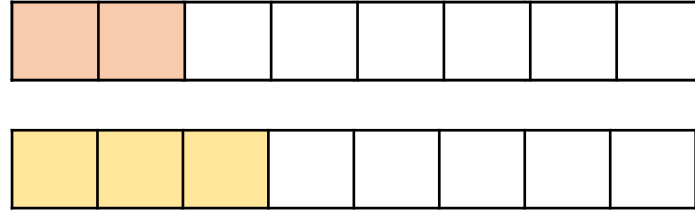
2) $\frac{5}{6} - \frac{1}{3} =$



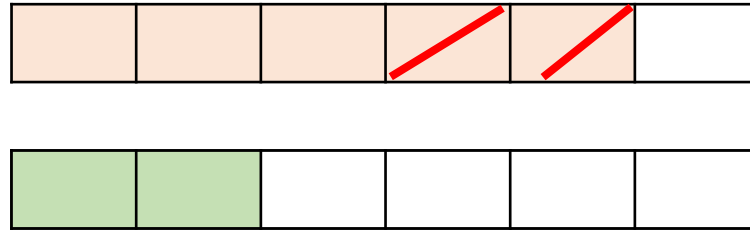
3) Complete the part-whole model:



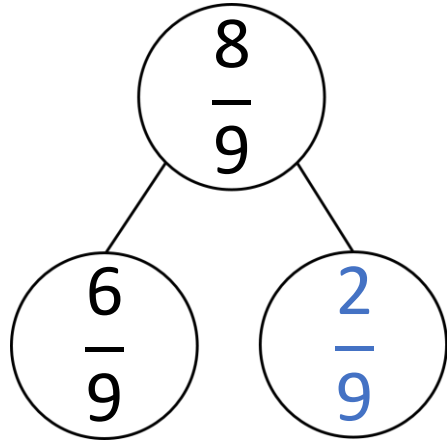
$$1) \quad \frac{1}{4} + \frac{3}{8} = \frac{5}{8}$$



$$2) \quad \frac{5}{6} - \frac{1}{3} = \frac{3}{6}$$

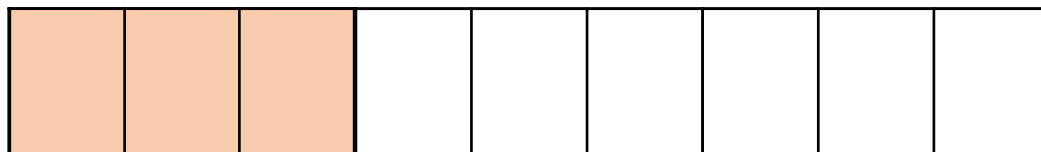
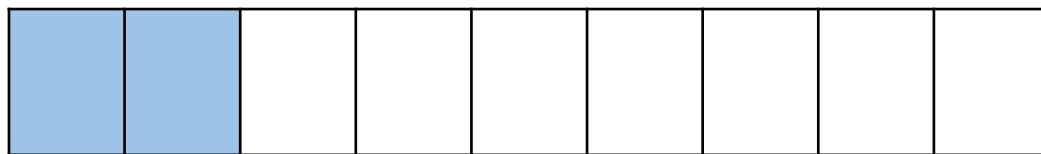


3) Complete the part-whole model:



$$\frac{2}{9} + \frac{1}{3} = \frac{2}{9} + \frac{3}{9}$$

A blue curved arrow points from the denominator 3 of the second fraction to the denominator 9 of the third fraction, with a $\times 3$ next to it, indicating the multiplication of the fraction by 3 to find a common denominator.



$$\frac{2}{9} + \frac{3}{9} = \frac{5}{9}$$

How can you use fraction strips to help you calculate

$$\frac{1}{4} + \frac{1}{3}$$



We need to find a common denominator.

We must find the lowest common multiple of 4 and 3

We must find equivalent fractions for both fractions.

Have a think



$$\frac{1}{4} + \frac{1}{3}$$

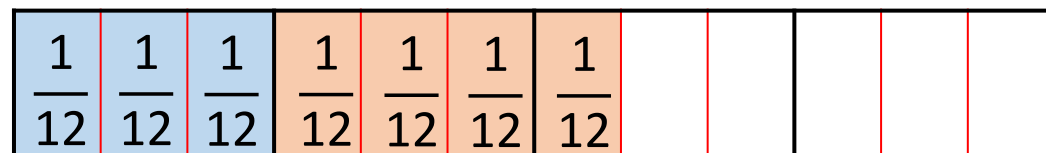
First divide each quarter into 3 equal parts.



Now divide each third into 4 equal parts.



What do you notice?



$$\frac{1}{4} = \frac{3}{12}$$

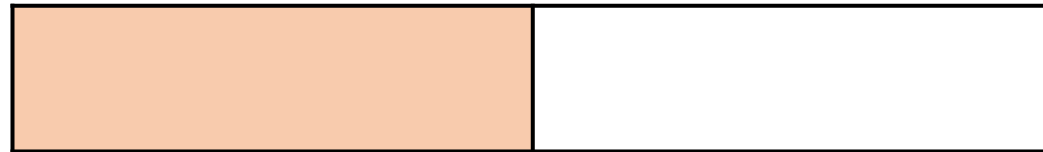
$$\frac{1}{3} = \frac{4}{12}$$

$$\frac{1}{4} + \frac{1}{3} = \frac{3}{12} + \frac{4}{12} = \frac{7}{12}$$

Have a think



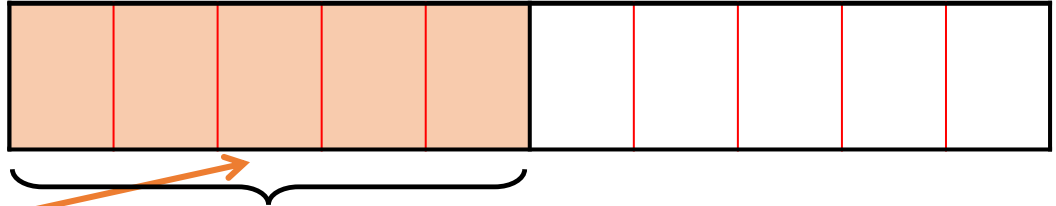
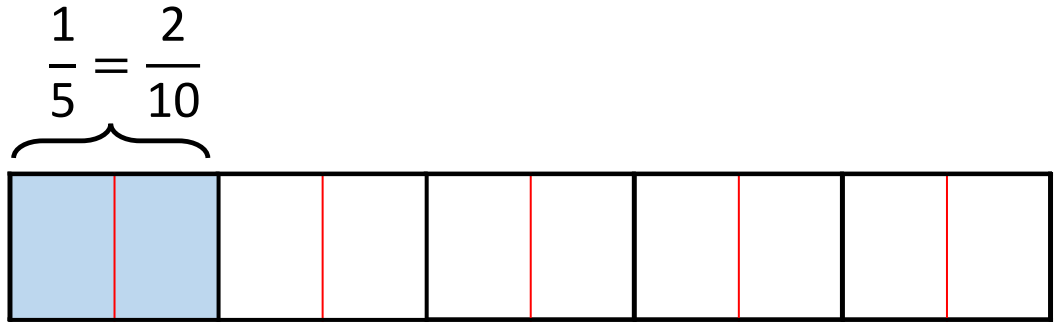
Use the fraction strips to help you work out $\frac{1}{5} + \frac{1}{2}$



Think about what you need to divide each part in each fraction strip by.

Divide each part into 2

$$\frac{1}{5} + \frac{1}{2}$$



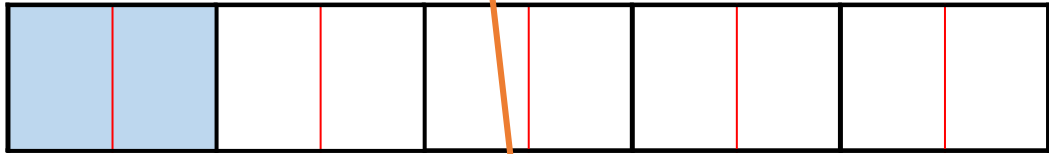
Divide each part into 5

$$\frac{1}{2} = \frac{5}{10}$$

$$\frac{1}{5} + \frac{1}{2} = \frac{2}{10} + \frac{5}{10} = \frac{7}{10}$$

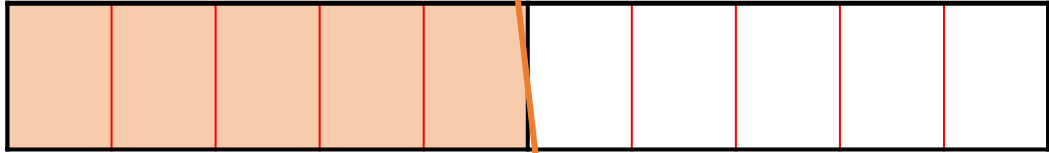
Divide each part into 2

$$\frac{1}{5} + \frac{1}{2}$$
$$\frac{1}{5} \div 2 = \frac{1}{10}$$




Divide each part into 5

$$\frac{1}{2} \div 5 = \frac{1}{10}$$



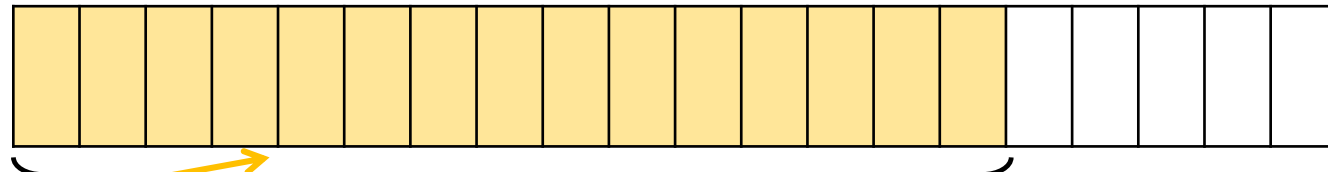
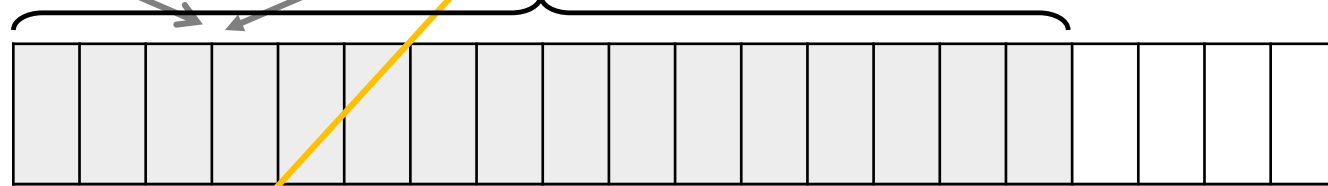
What will you divide each part in each fraction strip by to work out this calculation:

Have a think 

$$\frac{4}{5} - \frac{3}{4} = \frac{1}{20}$$

Divide each part into 4

$$\frac{4}{5} = \frac{16}{20}$$



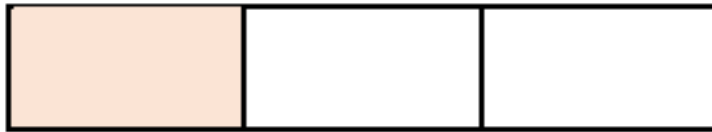
Divide each part into 5

$$\frac{3}{4} = \frac{15}{20}$$

$$\frac{4}{5} - \frac{3}{4} = \frac{16}{20} - \frac{15}{20} = \frac{1}{20}$$

1) Use the fraction strips to help you add together

$$\frac{1}{2} + \frac{1}{3} =$$

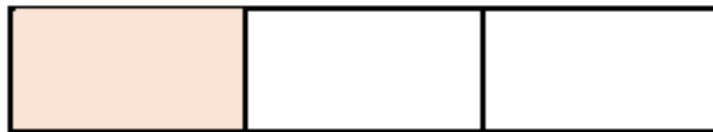
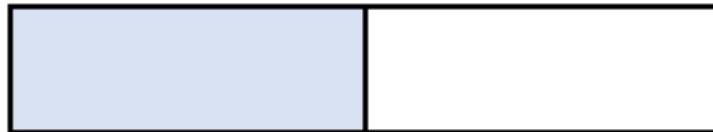


$$\frac{3}{5} + \frac{1}{3} =$$

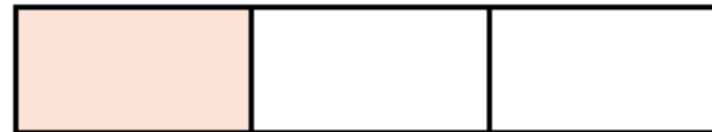
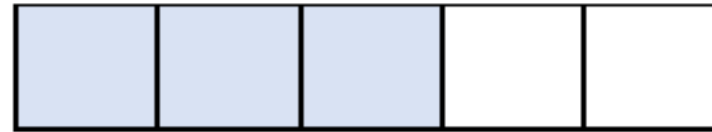


2) Use the fraction strips to help you subtract

$$\frac{1}{2} - \frac{1}{3} =$$

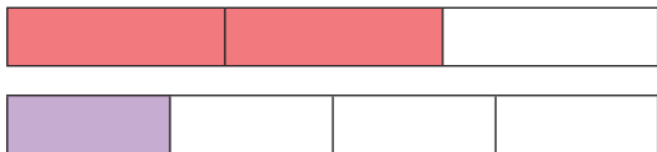


$$\frac{3}{5} - \frac{1}{3} =$$



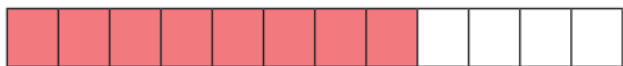
Add and subtract fractions (2)

- 1 Amir is using fraction strips to work out $\frac{2}{3} + \frac{1}{4}$



Amir says he needs to find a common denominator.

- a) Complete Amir's method.



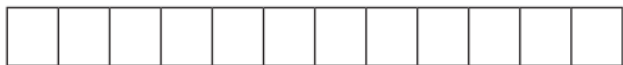
$$\frac{2}{3} = \frac{\square}{12}$$



$$\frac{1}{4} = \frac{\square}{12}$$

$$\frac{2}{3} + \frac{1}{4} = \frac{\square}{12} + \frac{\square}{12} = \frac{\square}{12}$$

- b) Show the addition on the fraction strip.



- c) Could you have used a different denominator?

- 2 What common denominator can you use to add the fractions?

a) $\frac{2}{5} + \frac{1}{2}$ Common denominator =

b) $\frac{2}{3} + \frac{4}{5}$ Common denominator =

c) $\frac{7}{8} - \frac{1}{4}$ Common denominator =

d) $\frac{7}{9} - \frac{1}{6}$ Common denominator =

e) $\frac{11}{15} + \frac{3}{10}$ Common denominator =

- 3 Ron and Eva are working out $\frac{1}{4} + \frac{5}{6}$

Ron's method

$$\frac{1}{4} + \frac{5}{6} = \frac{3}{12} + \frac{10}{12} = \frac{13}{12}$$

Eva's method

$$\frac{1}{4} + \frac{5}{6} = \frac{6}{24} + \frac{20}{24} = \frac{26}{24}$$

- a) What is the same about Ron's and Eva's methods?

- b) What is different about their methods?

- c) Which method do you prefer? Why?



4 Complete the calculations.

a) $\frac{1}{5} + \frac{3}{4} =$

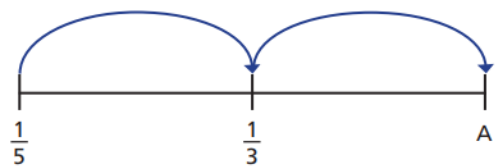
c) $\frac{1}{2} - \frac{1}{7} =$

b) $\frac{7}{8} - \frac{1}{3} =$

d) $\frac{11}{18} + \frac{7}{12} =$

5 Mo is drawing jumps on a number line.

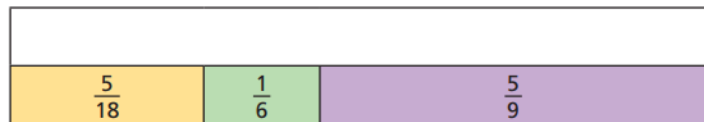
The jumps are the same size.



a) What is the size of the jump?

b) What is the value of A?

6 Complete the bar model.



7 Complete the additions.

Give your answers as mixed numbers and as improper fractions.

a) $\frac{4}{5} + \frac{5}{4} =$ = c) $\frac{9}{8} + \frac{8}{9} =$ =

b) $\frac{2}{3} + \frac{3}{2} =$ = d) = = $\frac{5}{3} + \frac{3}{5}$

What patterns do you notice?

8 Look at these additions.

$\frac{1}{2} + \frac{1}{3} =$

$\frac{1}{2} + \frac{1}{3} + \frac{1}{4} =$

$\frac{1}{2} + \frac{1}{3} + \frac{1}{4} + \frac{1}{5} =$

a) When does this pattern first give an answer greater than 2?

b) Do you think the pattern will ever give an answer greater than 100?



Name: _____

Times Tables Rock Stars

6,7

Times Tables

Licensed to East Ayrton Primary School

Week 9 Session 4
2020-21
Full Programme
4 a week

1 $6 \times 2 =$ _____ 21 $7 \times 5 =$ _____ 41 $72 \div 6 =$ _____

Time taken

:

🕒 3 minute time limit 🕒

2 $6 \times 4 =$ _____ 22 $6 \times 11 =$ _____ 42 $48 \div 6 =$ _____

3 $7 \times 7 =$ _____ 23 $7 \times 10 =$ _____ 43 $56 \div 7 =$ _____

4 $7 \times 4 =$ _____ 24 $6 \times 12 =$ _____ 44 $6 \div 6 =$ _____

Score

60

5 $7 \times 3 =$ _____ 25 $6 \times 9 =$ _____ 45 $7 \div 7 =$ _____

6 $6 \times 9 =$ _____ 26 $7 \times 2 =$ _____ 46 $35 \div 7 =$ _____

7 $6 \times 4 =$ _____ 27 $7 \times 5 =$ _____ 47 $54 \div 6 =$ _____

Add up your time

Mins

S1 _____

S2 _____

S3 _____

S4 _____

Total _____

8 $6 \times 8 =$ _____ 28 $7 \times 8 =$ _____ 48 $14 \div 7 =$ _____

9 $7 \times 10 =$ _____ 29 $7 \times 2 =$ _____ 49 $30 \div 6 =$ _____

10 $7 \times 9 =$ _____ 30 $6 \times 7 =$ _____ 50 $7 \div 7 =$ _____

11 $6 \times 11 =$ _____ 31 $36 \div 6 =$ _____ 51 $66 \div 6 =$ _____

12 $7 \times 3 =$ _____ 32 $70 \div 7 =$ _____ 52 $12 \div 6 =$ _____

13 $7 \times 9 =$ _____ 33 $84 \div 7 =$ _____ 53 $42 \div 6 =$ _____

14 $7 \times 9 =$ _____ 34 $18 \div 6 =$ _____ 54 $12 \div 6 =$ _____

Secs

S1 _____

S2 _____

S3 _____

S4 _____

Total _____

Add up your score

S1 _____

S2 _____

S3 _____

S4 _____

Total _____

15 $6 \times 3 =$ _____ 35 $72 \div 6 =$ _____ 55 $28 \div 7 =$ _____

16 $7 \times 7 =$ _____ 36 $60 \div 6 =$ _____ 56 $42 \div 6 =$ _____

17 $7 \times 2 =$ _____ 37 $6 \div 6 =$ _____ 57 $63 \div 7 =$ _____

18 $7 \times 10 =$ _____ 38 $35 \div 7 =$ _____ 58 $54 \div 6 =$ _____

19 $7 \times 9 =$ _____ 39 $14 \div 7 =$ _____ 59 $70 \div 7 =$ _____

20 $7 \times 5 =$ _____ 40 $21 \div 7 =$ _____ 60 $35 \div 7 =$ _____

Guided Reading

Chapter One

A Not Quite Normal Day

It began on a Friday, as strange things often do. This particular Friday had been stranger than most, although it had started normally enough. Elliot Hooper got up at 7.30am as normal, made his Mum breakfast at 8.15am as normal, went to school at 8.55am as normal and was in the Headmaster's office by 9.30am, which was in fact, slightly later than normal.

'Oh Elliot,' sighed Graham Sopweed, headmaster of Brysmore Grammar School. 'What are we going to do with you?'

He looked into the blue-green eyes of the 13-year-old boy before him, as Elliot scratched his shaggy blonde head for an answer. Two years earlier, Graham Sopweed had watched as Elliot was proudly escorted through Brysmore's gates by his Mum, Nan and Grandad. The reports from his primary school had been glowing. "Elliot Hooper is a wonderful student who is sure to set Brysmore alight," his previous headmistress promised. There was no doubt that Elliot was a bright boy, but after a promising start, the past year had seen a big change in this young man and not for

the better. Elliot Hooper hadn't set Brysmore alight. But Mr Sopweed was more than a little concerned that he might set the school on fire.

'It's a tricky one, Sir,' Elliot replied after a lengthy pause. 'It's really a question of everyone's best interests. And the simple fact is that I don't want to be at this school, the teachers don't want me to be at this school, the pupils don't want me or the teachers to be at this school, so perhaps it's time we admitted defeat and everyone got home in time for *Deal or No Deal*.'

Read the extract of chapter one, 'A Not Quite Normal Day.'

4) Why has the author repeated the word 'normal' in the first paragraph?

_____ (1 mark)

5) Find a word that is a synonym for guided.

_____ (1 mark)

6) What is Mr Sopweed worried that Elliot might do to the school?

_____ (1 mark)

7) Find evidence that Elliot doesn't want to stay at school.

_____ (1 mark)

Grammar focus

8) Find an example of an apostrophe for contraction. _____ (1 mark)

9) Find 3 adjectives from the text. _____ (1 mark)

10) Find a hyphenated word in the text. _____ (1 mark)

English – To write my diary entry

Part 4 (example below) - Beowulf returns victorious, Hrothgar thanks Beowulf for his courage and heroism but tells him that this will not last forever.

460AD

I returned to the mead hall with my trophies: the head of Grendel and his mother. I could see the relief my trophies brought Hrothgar and his wife, and I was glad. I had finally fulfilled my promise to rid their land of evil and the honour of my father and King Hygelac was intact. Hrothgar was exceedingly generous with his hospitality and his wealth and he gave me many lavish gifts. Before my departure he spoke to me candidly and said the following words which will stay with me for the rest of my days.

“Do not become like other heroes before you, Beowulf. Bloodthirsty and proud. I am old in years but in my youth, I was a peerless warrior who never lost a battle. Men are frail and our lives are finite. Even with you the end must come – your strength will fail. Waiting for you is sickness maybe, or a slashing sword, or a burning fire, or old age. Death awaits us all.”

I will listen to Hrothgar’s wise council and return to my homeland a better man than when I left.

Science



Science

Living Things and Their
Habitats

Aim

- I can describe how living things are classified into groups.

Success Criteria

- I can describe who Carl Linnaeus was.
- I can explain how living things are classified using the Linnaean system.
- I can classify living things using the Linnaean system.

A Standard System



In the previous lesson you classified animals by sorting and grouping them based on their similarities and differences. Did everyone in the class sort and group the animals in the same way?

They most probably did not! However, scientists need to use a standard recognised method for classifying living things.

Talk to your partner about why this would be important.



Who Was Carl Linnaeus?

Carl Linnaeus was a Swedish scientist who believed it was very important to have a standard system of classification. At the time he was alive, in the 1700s, there was no agreed standard method.

Linnaeus collected and examined over 40,000 specimens of plants, animals and shells. In 1735, he published his first edition of 'Systema Naturae', which described his system for classifying living things.

Over the next several years, Linnaeus continued to publish new editions of 'Systema Naturae' that included more species of living things. His tenth edition was published in 1758 and is considered to be the most important edition.



The Linnaean System

Linnaeus' original system of classification classified everything in nature into a hierarchy.

He proposed that there were three large groups, called kingdoms, into which the whole of nature could fit. These kingdoms were plants, animals and minerals. He then split each kingdom into smaller and smaller groups, or levels.

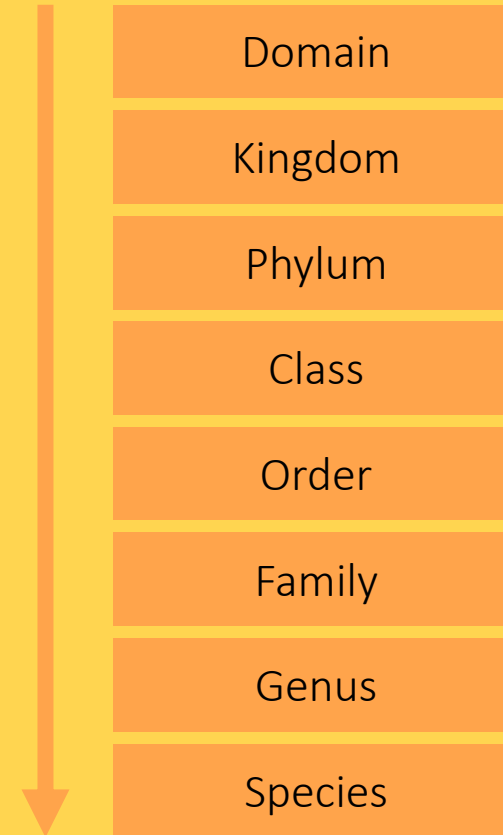
Today, the Linnaean system is only used to classify living things, so it does not include minerals. Furthermore, as new living things have been discovered, scientists have had to add additional levels in the hierarchy. A new level above kingdom, called domain, has also been introduced.



The Linnaean System

This diagram shows the levels of classification in the Linnaean system.

Living things can be classified by following the levels in this system. The number of living things in each group gets smaller and smaller, until there will just be one type of animal in the species group.



The Linnaean System

There are 3 domains: Archaea, Bacteria and Eukarya.
Plants and animals are all eukaryotes.

There are 6 kingdoms, including animals, plants, fungi and bacteria.

The 6 kingdoms are then split into phyla. There are more than 30 phyla in the animal kingdom. Phylum chordata includes all vertebrates.

Each phyla is divided into classes. The chordata phylum includes amphibians, birds, mammals, reptiles and fish.

The order and the family divide into further groups.

The genus includes species that are very closely related and share unique body structures.

A species is defined as a group of animals that can reproduce to produce fertile offspring.



Domain

Kingdom

Phylum

Class

Order

Family

Genus

Species

Classifying Species

Here you can see how a species can be classified at each level of the standard system.

| | |
|-----------------------|--|
| Domain: Eukarya | jackal, clownfish, cat, dog, ladybird, daisy, rabbit, fox, human |
| Kingdom: Animals | jackal, clownfish, cat, dog, ladybird, rabbit, fox, human |
| Phylum: Chordata | jackal, clownfish, cat, dog, rabbit, fox, human |
| Class: Mammals | jackal, cat, dog, rabbit, fox, human |
| Order: Carnivora | jackal, cat, dog, fox |
| Family: Canidae | jackal, dog, fox |
| Genus: <i>Canis</i> | jackal, dog |
| Species: <i>Lupus</i> | dog |

Classifying Species

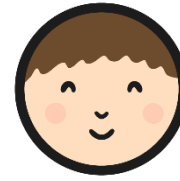
| | |
|-----------------------|-------------|
| Genus: <i>Canis</i> | jackal, dog |
| Species: <i>Lupus</i> | dog |

The genus and species are always written in italics. The names of the genus and species are used to give the scientific name (recognised Latin name) of each living thing.

So the scientific name for a dog is *Canis lupus*.



Classifying Species Activity



Choose another living thing from the list below and follow the levels of the classification system to classify it. Complete your Classifying Species Activity Sheet to show how it fits into each level of the standard system.

Use the genus and the species to give the scientific name of the species.

You will need to use books or the Internet to research the animal and find the information you need.



jackal



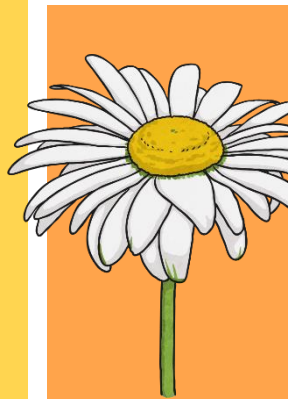
clownfish



cat



ladybird



daisy



rabbit

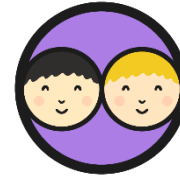


fox



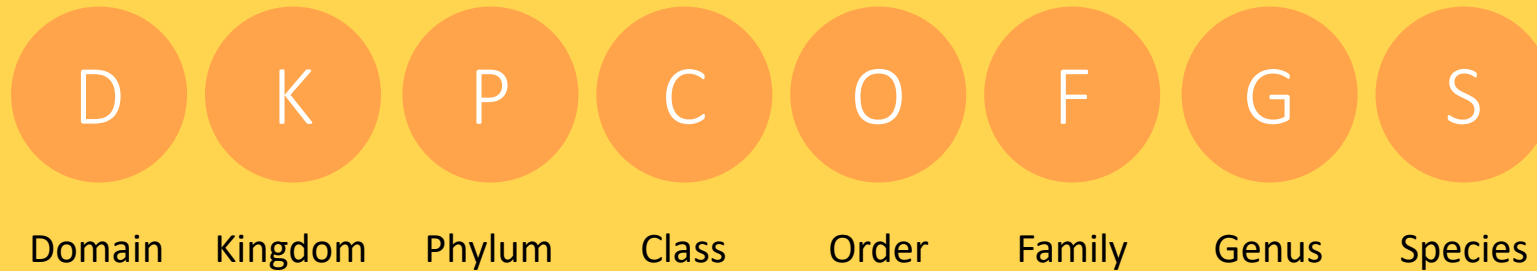
human

Invent a Mnemonic



The levels of the classification system can be tricky to remember. Work with your partner to invent a mnemonic to help you!

The letters you need to use are:











An example mnemonic could be:

Does Keep Precious Creatures Organised For Grumpy Scientists

Classifying Species

Choose one of the living things below and find out how it is classified in the Linnaean system.

| | | | |
|---|--|--|---|
|  jackal |  clownfish |  cat |  ladybird |
|  daisy |  rabbit |  fox |  human |

Choose one of the living things on the list. Use the internet to research the living thing and complete the activity sheet showing how the species is classified at each level of the standard system.

Complete the levels of classification to show what you have found out.

Living thing: _____

Domain: _____

Kingdom: _____

Phylum: _____

Class: _____

Order: _____

Family: _____

Genus: _____

Species: _____

What is the scientific name of your chosen living thing?

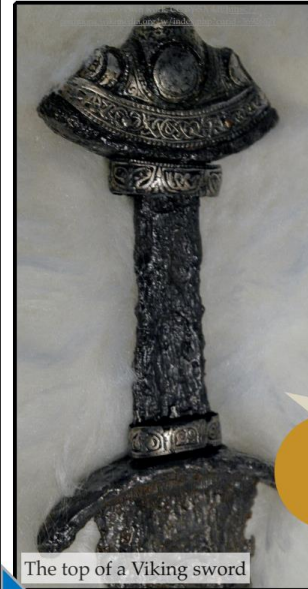
Art

VIKING ART

Learning Objective:

To be able to draw Viking patterns.

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The top of a Viking sword



A piece of Viking jewellery

By Zweifelhundertvierunddresig - Own work, CC BY-SA 3.0, <https://commons.wikimedia.org/w/index.php?curid=3466592>



By Jürgen Hovwald - Own work (selbst erstelltes Foto), CC BY-SA 2.0, <https://commons.wikimedia.org/w/index.php?curid=311147>

A Viking picture stone

WHAT DO THESE
THREE PIECES OF
VIKING ARTWORK HAVE
IN COMMON?

NEXT

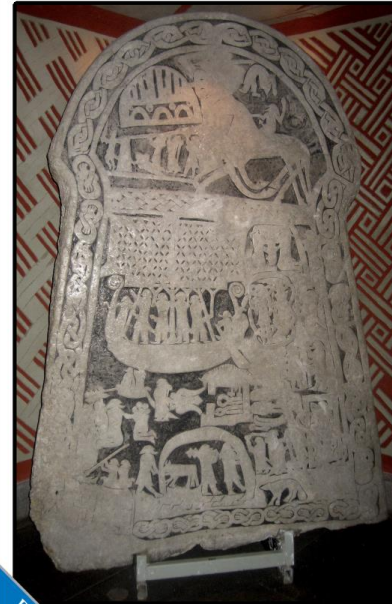
BACK

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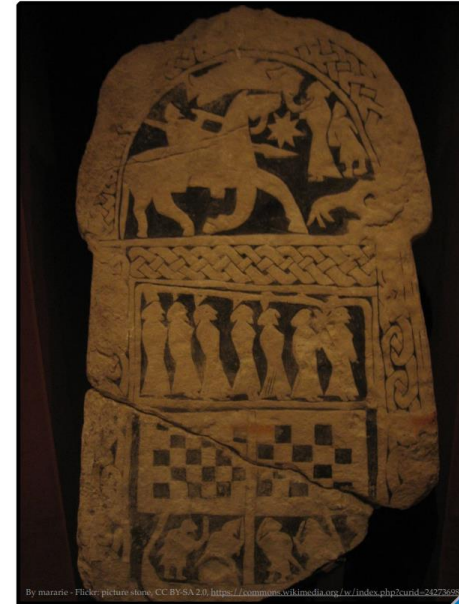
NEXT

One of the main features of Viking art is knots and interweaving patterns. This was also a feature of Celtic art and there are lots of examples of both that have been found in Britain.

These kinds of patterns were often used as borders or as a decorative feature on carvings, jewellery and weaponry.



WHERE CAN YOU SEE KNOTTED PATTERNS ON THESE TWO VIKING PICTURE STONES?



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TODAY WE'RE GOING TO LEARN HOW TO DRAW SOME VIKING KNOTS AND OTHER PATTERNS. HAVE YOU GOT SOMETHING TO DRAW WITH?

A BASIC VIKING KNOT



Draw two parallel vertical lines.



Draw two parallel horizontal lines coming off the right-hand vertical line. Make sure they are central to the other lines.



Draw two more vertical parallel lines coming off the bottom horizontal line.



Draw two more horizontal parallel lines. Make sure the top line meets the bottom of the first two lines you drew.

BACK

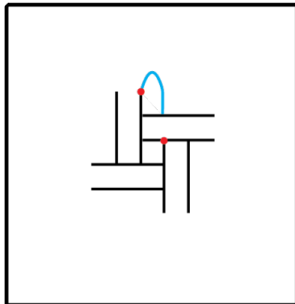
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NEXT

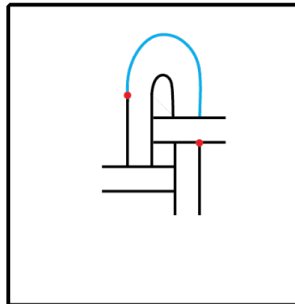
BACK

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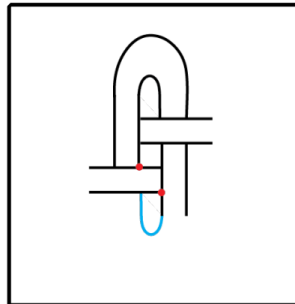
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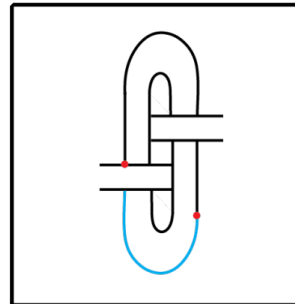
Draw a curved line to join the two points that are marked by the red dots BUT make sure you don't draw all the way through the horizontal line!



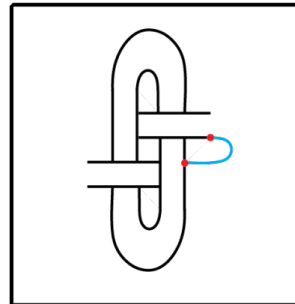
Now draw another curved line to join these two points. Try and make the path you are creating the same width all the way around.



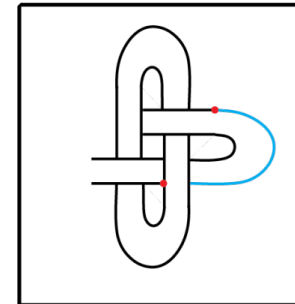
Now do the same thing on the bottom. Join the two points marked by the red dots but don't go through the horizontal line.



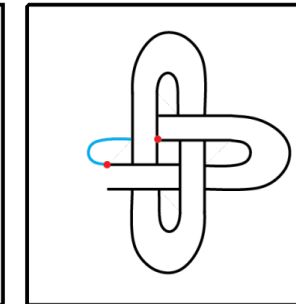
Join the two red dots up with a curved line, keeping the path the same width all the way round.



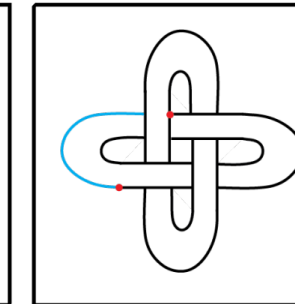
Draw a curved line to join the two points that are marked by the red dots BUT make sure you don't draw all the way through the vertical line!



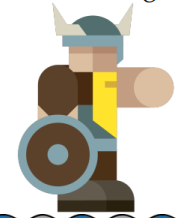
Join up the red dots again.



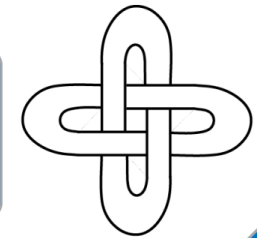
And again!



Last one!



AND THERE YOU HAVE YOUR BASIC VIKING KNOT!

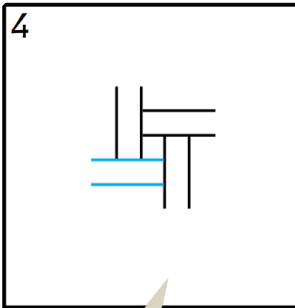
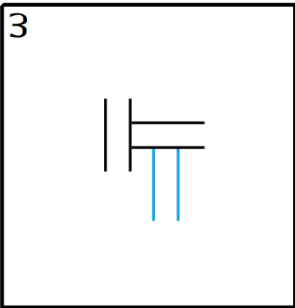
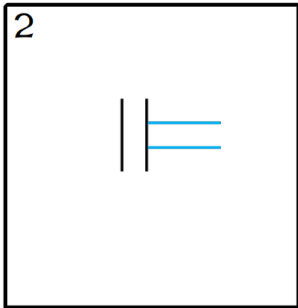
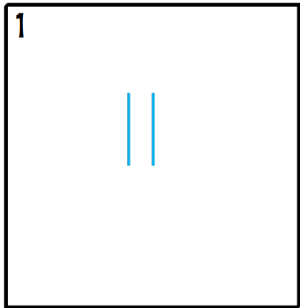


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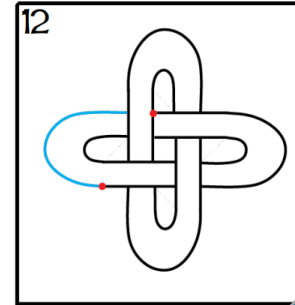
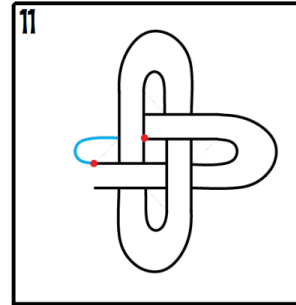
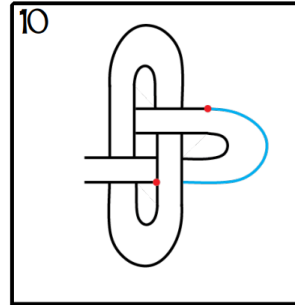
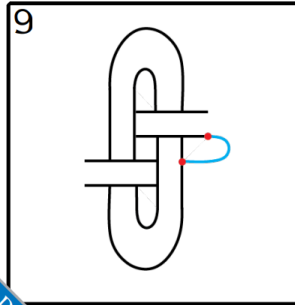
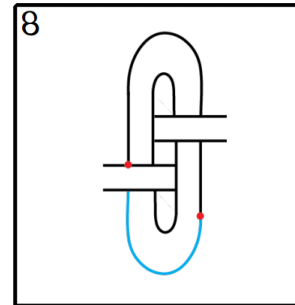
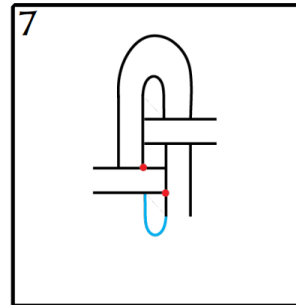
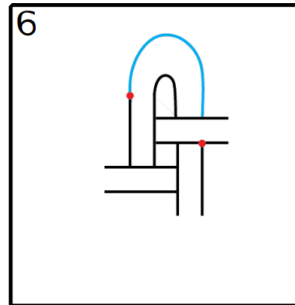
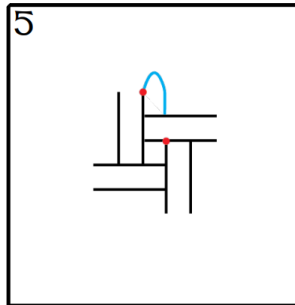
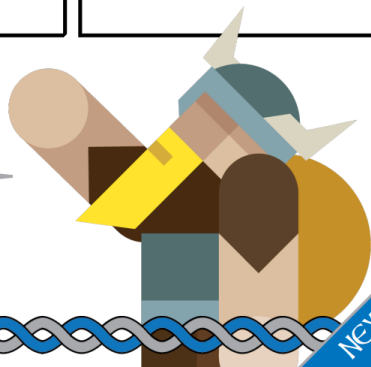
NEXT

BACK

NEXT



LET'S TRY IT AGAIN! CAN YOU DO THESE FOUR STEPS ACCURATELY?



BACK

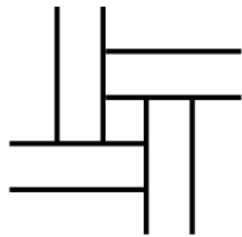
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BACK

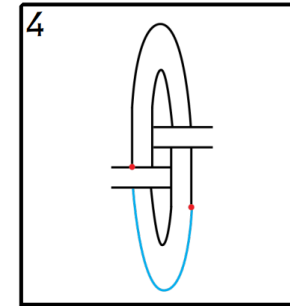
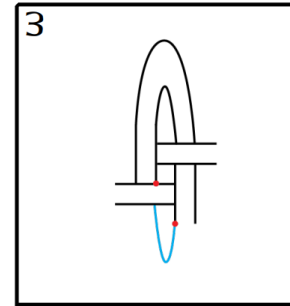
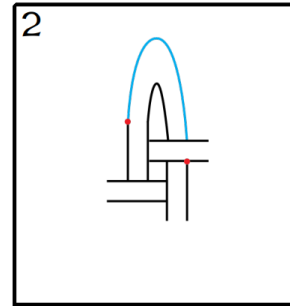
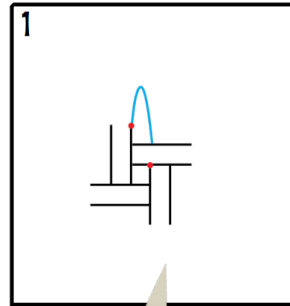
NEXT



HOW DID YOU GET ON WITH THAT ONE? ONCE YOU KNOW THE BASICS, YOU CAN ALTER THE PATTERN A BIT. DRAW THE FIRST SECTION AGAIN...

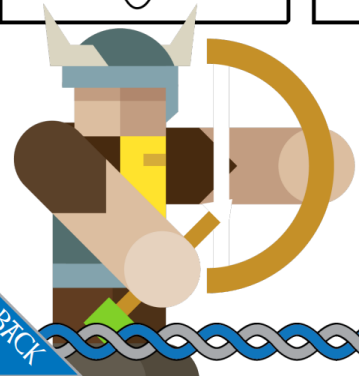
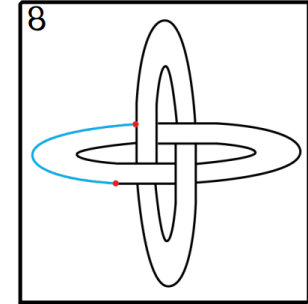
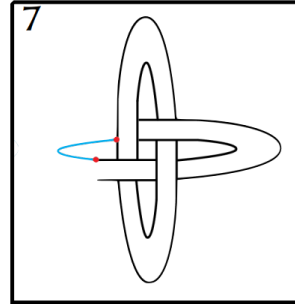
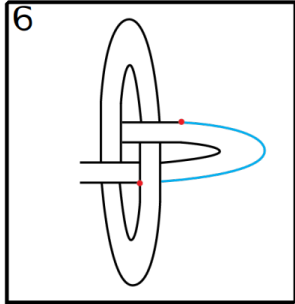
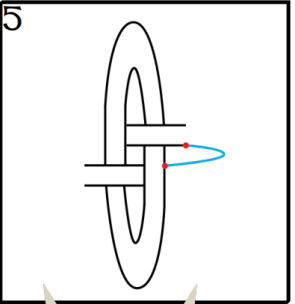


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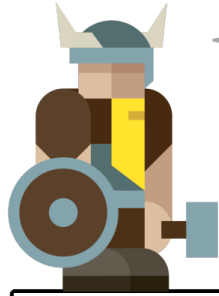
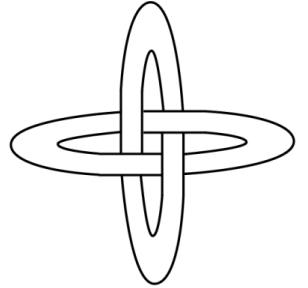


THIS TIME, MAKE THE LOOPS POINTIER.

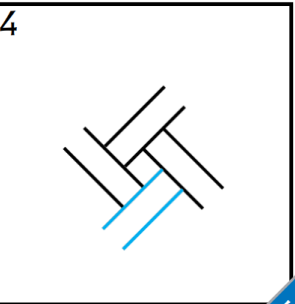
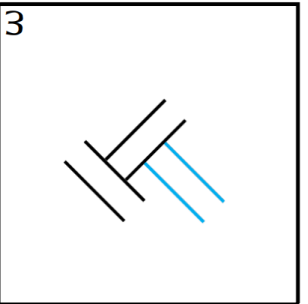
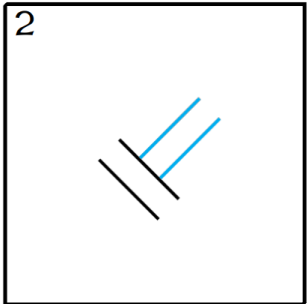
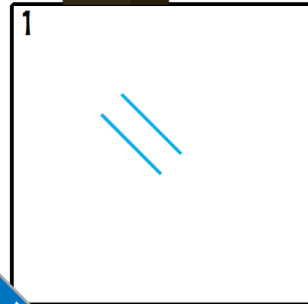
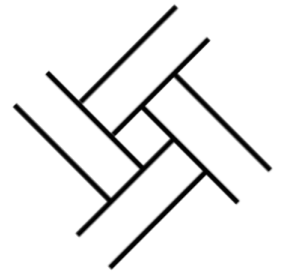
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YOU THEN END UP WITH A SLIGHTLY DIFFERENT KNOT.



LET'S TRY ANOTHER ONE!
THIS TIME, DRAW ALL YOUR PARALLEL LINES ON A 45° ROTATION...



BACK

NEXT

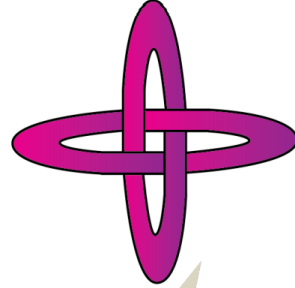
BACK

NEXT

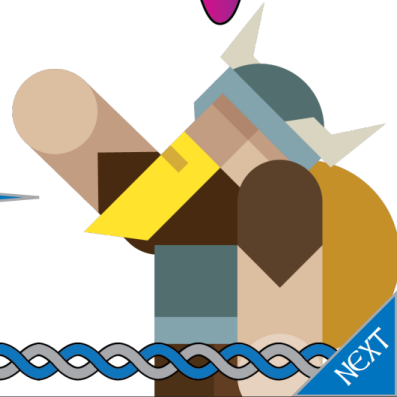


| | | | |
|---|----|----|----|
| 5 | 6 | 7 | 8 |
| 9 | 10 | 11 | 12 |

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WHICH OF THESE DO YOU LIKE BEST?
CAN YOU THINK OF ANY OTHER WAYS
YOU COULD CHANGE THE KNOT?



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BACK

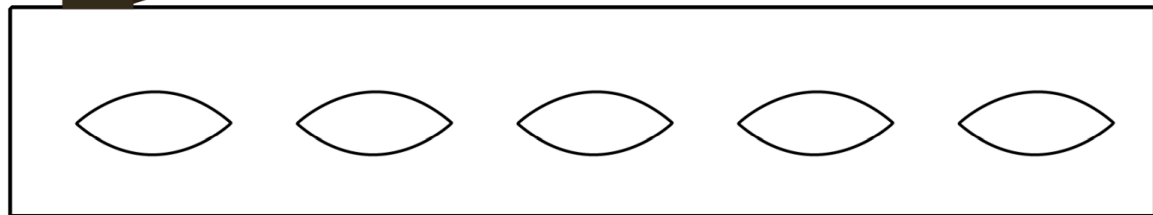
NEXT

BACK

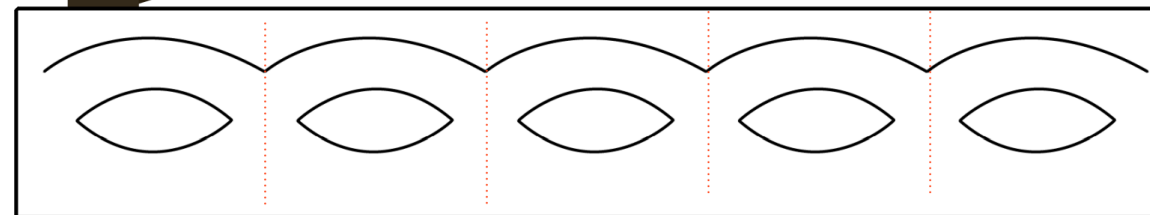
NEXT



LET'S TRY SOMETHING ELSE. DRAW FIVE ALMOND SHAPES. MAKE THEM THE SAME SIZE AND MAKE SURE THEY ARE AN EQUAL DISTANCE APART.



DRAW SOME WAVES OVER THE TOP OF THE ALMOND SHAPES. MAKE SURE THE LOWEST POINT OF THE WAVES IS IN THE MIDDLE OF THE TWO ALMONDS.



BACK

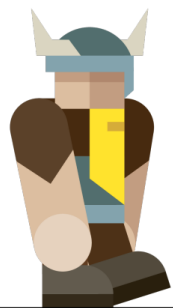
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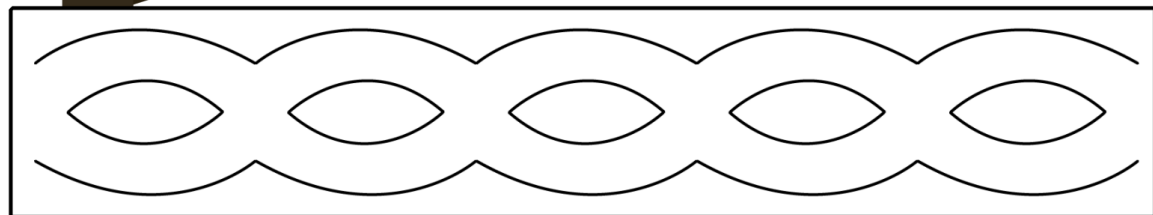
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NEXT

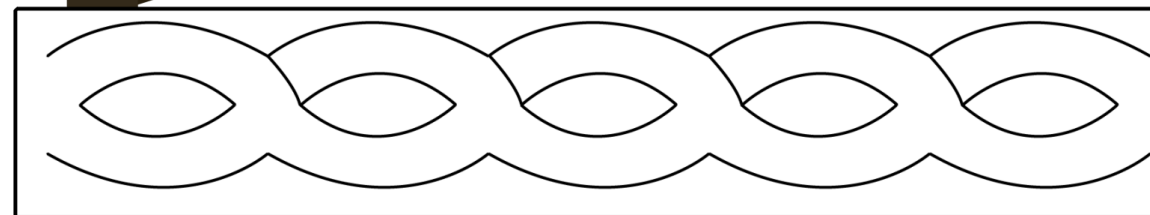
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DO THE SAME ON THE BOTTOM. MAKE SURE THAT BOTH SETS OF WAVES ARE AN EQUAL DISTANCE FROM THE ALMONDS.



DRAW A LINE FROM THE BOTTOM OF EVERY TOP WAVE TO THE LEFT CORNER OF THE NEXT ALMOND. DO THIS ALL THE WAY ALONG.



BACK

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NEXT

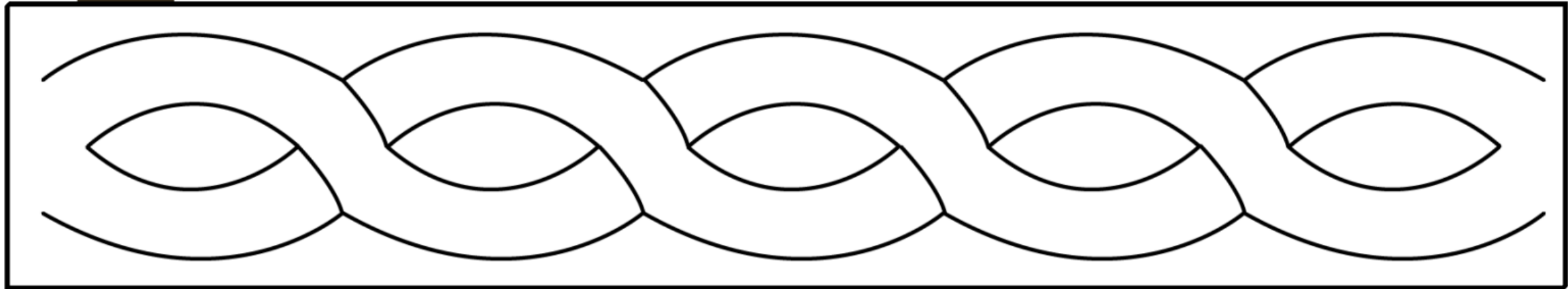
BACK

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NEXT



NOW CONNECT THE TOP OF EACH OF THE BOTTOM WAVES TO THE RIGHT CORNER OF THE PREVIOUS ALMOND. NOW YOU HAVE A BASIC ROPE PATTERN!



BACK

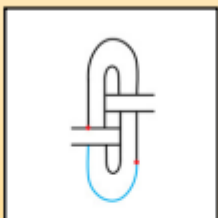
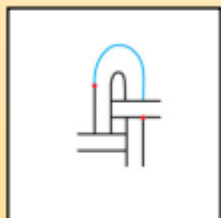
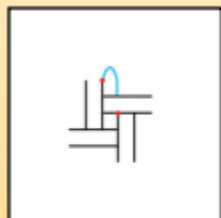
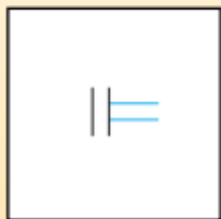
NEXT

Use this space to practise drawing Viking knots and patterns.

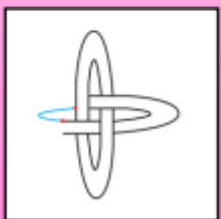
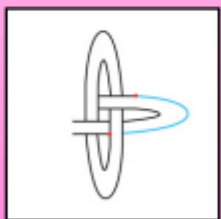
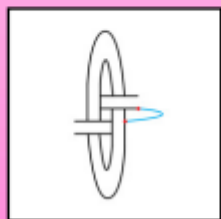
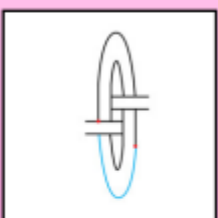
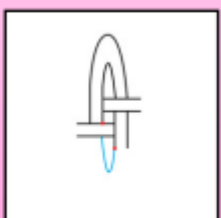
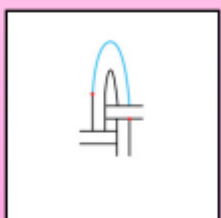
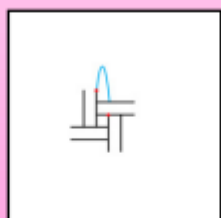




BASIC
VIKING
KNOT 1

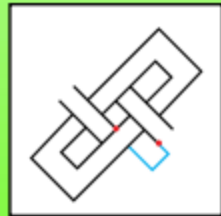
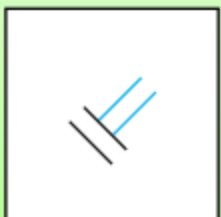


BASIC
VIKING
KNOT 2

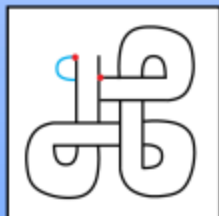
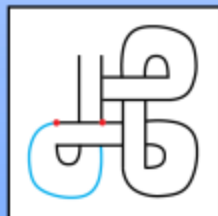
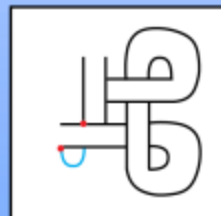
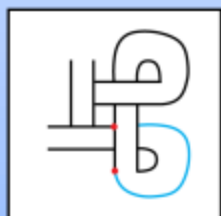
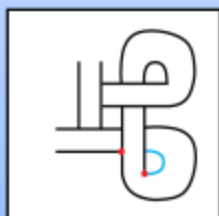
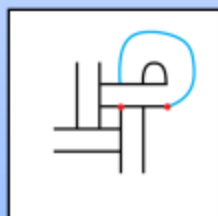
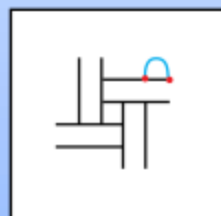




BASIC
VIKING
KNOT 3



BASIC
VIKING
KNOT 4



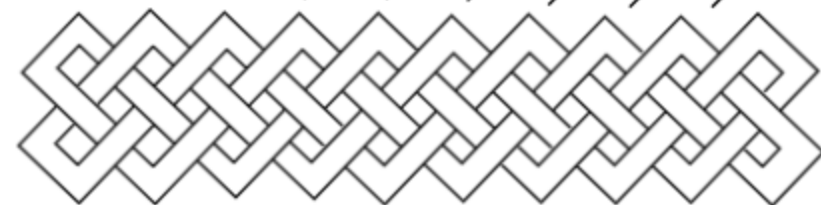
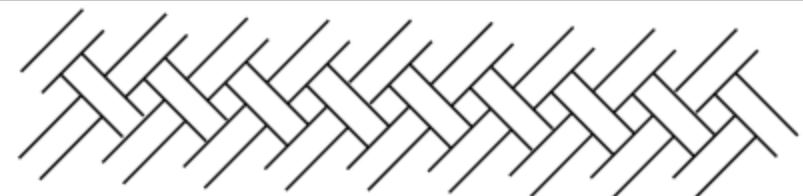
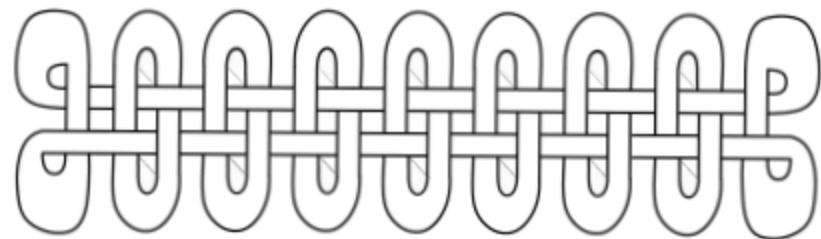
BASIC VIKING ROPE



USING THE BASICS

Once you've mastered the basic knots, you can use them in lots of different ways to create larger knots and patterns.

Can you create some borders like these ones?



CREATING WEAVING PATTERNS

Vikings didn't always have structured knots and patterns. They often used random, swirling overlapping patterns. Follow the instructions below to see if you can create your own! It can be tricky so do lots of practising first!



Start by drawing a random pattern lightly in pencil.



Now make this a double line by drawing a second line close to the first. This can be tricky so be careful!



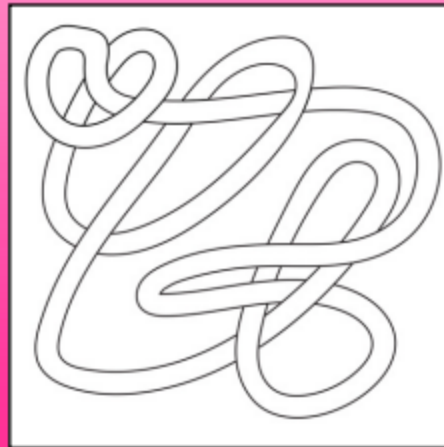
Where each section of the ribbon overlaps, choose ONE set of parallel lines to go over in pen. These 'bridges' will show whether the ribbon will go over or under so try to alternate them.



Now start connecting the rest of the ribbon in pen. If your pen reaches a bridge, STOP and continue on the other side of the bridge.



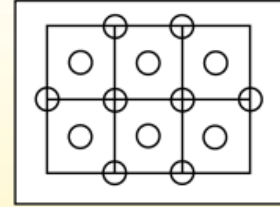
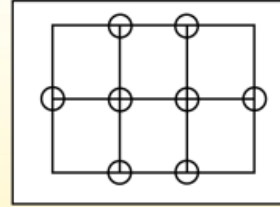
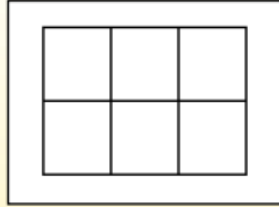
Keep going until you have connected each section of the bridge. It's really easy to make mistakes so try and picture where the ribbon is going.



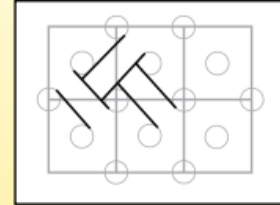
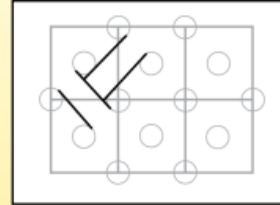
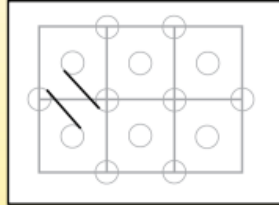
When you have done all your lines, rub out the pencil lines that are left. You will then have a weaving ribbon pattern!



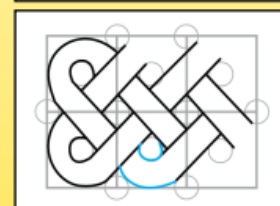
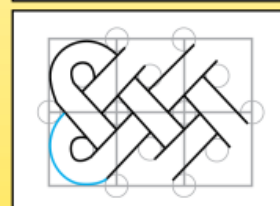
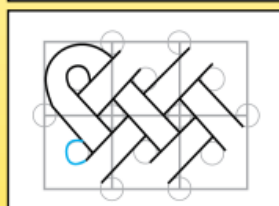
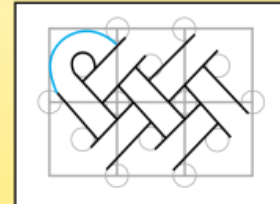
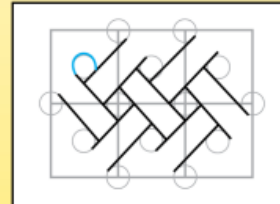
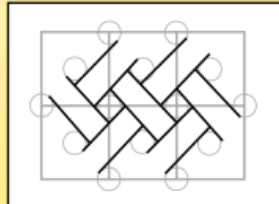
VIKING KNOT PATTERN



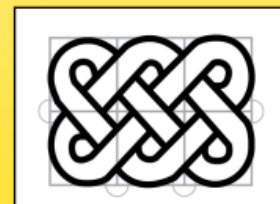
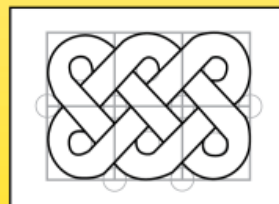
Draw a 3x2 grid lightly in pencil, then lightly draw the circles on the places shown.



Use the circles as a guide to start drawing pairs of perpendicular parallel lines. Only draw a pair of lines if there are four circles to create a square.



Draw loops to start connecting the different strands of the knots. Use the circles as a guide and make sure you know how each strand joins up.



When you have completed the knot pattern, draw over it carefully with a black pen. Gently rub out any pencil marks.

CHALLENGE: What happens if you extend the grid? Can you make a knot in a 3x3 grid? How about a 4x5 grid?