

11 and 12 times-table

3 Rosie is spotting patterns in the 11 times-table.



When I add together the digits of each multiple of 11, I always get an even number.

$$\begin{aligned} 2 \times 11 &= 22 \\ 2 + 2 &= 4 \text{ which is an even number} \end{aligned}$$



$$2 \times 11 = 22$$

1 The base 10 represents 2×11

Use base 10 to work out 3×11
Draw your base 10 and complete the multiplication.

$$3 \times 11 = \boxed{}$$

2 Complete the calculations.

$$5 \times 11 = \boxed{}$$

$$7 \times 11 = \boxed{}$$

$$9 \times 11 = \boxed{}$$

$$4 \times 11 = \boxed{}$$

$$6 \times 11 = \boxed{}$$

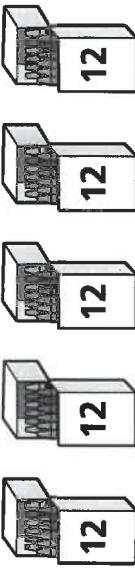
$$3 \times 11 = \boxed{}$$

$$10 \times 11 = \boxed{}$$

$$12 \times 11 = \boxed{}$$

4 Crayons come in packs of 12

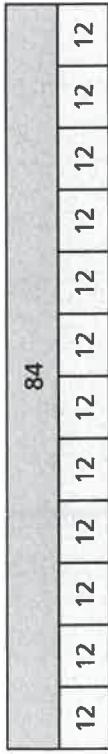
Dora buys 5 packs of crayons.



How many crayons does she have?

Dora has crayons.

5 Ron uses a bar model to represent 84 divided by 12



a) Explain Ron's mistake.

- b) Draw the correct bar model diagram to represent 84 divided by 12



7 Mr Scott is organising a cricket tournament.

a) There are 11 players in a cricket team.

5 teams have signed up for the tournament.

How many players have signed up?

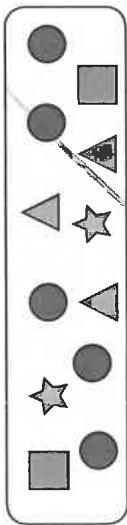
- b) Mr Scott needs 132 players signed up to go ahead with the tournament.

How many more teams are needed?

more teams are needed.

6 Amir is making pictures using shapes.

Here is one picture.



- a) How many shapes does he use altogether?
Show your working.

Is he correct? _____

Explain your answer. _____

- b) What happens when he tries this for all the multiples of 12 up to 12×12 ?

Is there a pattern?

$$\begin{array}{l} \star = \boxed{} \\ \triangle = \boxed{} \end{array}$$

$$\begin{array}{l} \square = \boxed{} \\ \circ = \boxed{} \end{array}$$



6 Eggs are put in boxes in arrays of 2×3

Dani buys 12 boxes.

How many eggs does she buy altogether?



Dani buys 5 more boxes.

How many eggs does she have now?

8 Kim rolls three 6-sided dice.

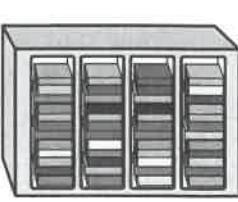
The product of her numbers is 60

a) What numbers could she have rolled?

b) How many different ways could Kim have made 60?

Talk about it with a partner.

c) Roll three dice and find the product of the numbers you roll.



9 In the library there are 5 bookcases.

Each bookcase has 4 shelves.

On each shelf there are 12 books.

How many books are there in the library?

120000

Factor pairs

Wed

- 2 Use counters to make arrays and find the factor pairs for each number.

a) 12

b) 15

c) 24

- 1 Alex is making arrays using counters.

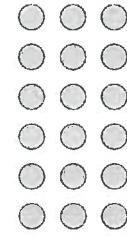
- a) What calculation is represented in each array?



$$\boxed{} \times \boxed{} = 18$$



$$\boxed{} \times \boxed{} = 18$$

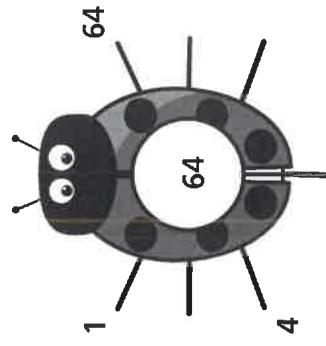
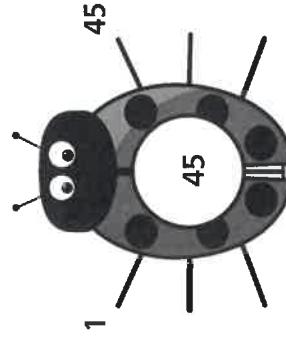


$$\boxed{} \times \boxed{} = 18$$

- b) Use your answers from part a) to help you write all the factors of 18

Which of the numbers has the most factor pairs? _____

- 3 Complete the factor bugs for 45 and 64



- 4 Find all the factor pairs for the number 72

The factor pairs of 72 are _____

5 Are these statements true or false?

- 8 and 2 are both factors of 10 True False

5 and 50 are both factors of 50 True False

25 has only three factors. True False

All the factors of 15 are odd. True False

Talk about your answers with a partner.

6

The bigger the number the more factor pairs it has.



Use examples to show that Dexter is wrong.

b) Find two other numbers with the same number of factor pairs.

- 8 and 2 are both factors of 10
5 and 50 are both factors of 50
25 has only three factors.

Class 4B is having a sports day.

There are 36 children in the class.

The children need to be in equal groups.

What group sizes are possible?

8

There are 36 children in the class.

The children need to be in equal groups.

What group sizes are possible?

9 Rosie is investigating factor pairs.

7 Tommy is finding factors of 12 and 18

12 and 18 have the same number of factor pairs.



6 is a perfect number because when you add its factors together, apart from itself, they equal 6

What is the next perfect number after 6?

a) Is Tommy correct? _____

Explain your answer.

Efficient multiplication

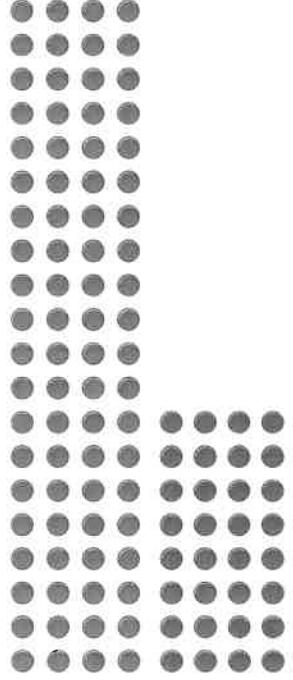
2 Mo, Amir and Annie worked out 35×6 in 3 different ways.

1 Class 4 are multiplying 28×4 mentally.

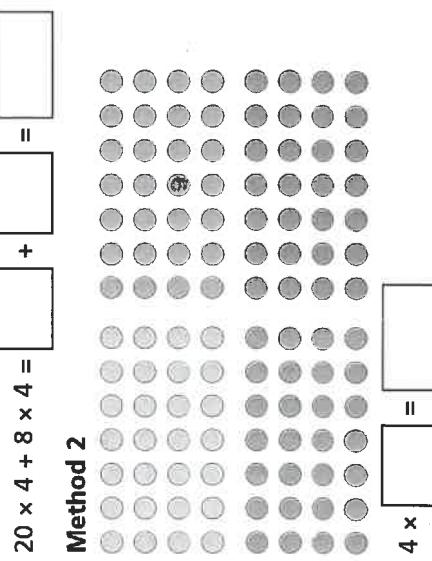
They are trying two different methods.

a) Complete their calculations.

Method 1



Method 2



$$20 \times 4 + 8 \times 4 = \boxed{ } + \boxed{ } = \boxed{ }$$

a) Work out the answer using each method to show that they are all correct.

Mo

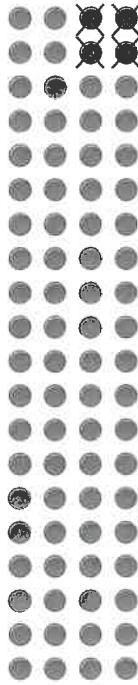
Amir

Annie

b) What other methods could you use to work out 28×4 ?
Talk about it with a partner.

c) Who has used the most efficient method?
Talk about it with a partner.

- 3 Scott is working out 21×4



$$\begin{aligned}20 \times 4 &= 80 \\80 - 4 &= 76 \\21 \times 4 &= 76\end{aligned}$$

- a) What mistake has Scott made?

- b) What is the correct answer?

- 4 Jack works out 36×9

$$\begin{aligned}36 \times 9 &\\36 \times (10 - 1) &\\360 - 36 = 324 &\end{aligned}$$

Adapt Jack's method to work out 36×99

$$36 \times 99 =$$

- 5 Esther has found a quick way to multiply 84 by 5

$$\begin{aligned}84 \times 5 &\\84 \times 10 &= 840 \\(\text{then divide by } 2) &\text{ which is } 420\end{aligned}$$

- Use Esther's method to complete the calculations.

$$43 \times 5 =$$

$$62 \times 5 =$$

$$74 \times 5 =$$

- 6 Tommy and Dora are both working out 25×8

$$25 \times 8 = 25 \times 10 - 25 \times 2$$



- a) Use Tommy's method to work out the answer.

$$25 \times 8 = 50 \times 8 \div 2$$



- b) Use Dora's method to work out the answer.

- c) Whose method do you prefer? Why?

- d) Do you know another method?



Fridaay

- b) Use a number line to complete the multiplications.

$$5 \times 32 = \boxed{}$$

- 1 Dora uses base 10 to work out 34×3

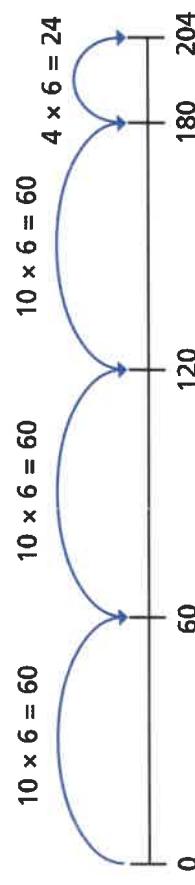
Tens	Ones

- Use base 10 to work out 3×28 and 3×36

$$3 \times 28 = \boxed{}$$

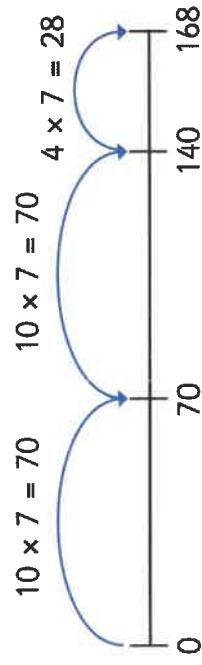
$$3 \times 36 = \boxed{}$$

- 2 Class 4 are using number lines to solve 6×34



- a) Talk about Class 4's method with a partner.

3 Mo uses a number line to work out 7×34



What mistake has Mo made?

Talk about it with a partner.

What should the number line look like? Draw it here.

A large, empty rectangular box with a light green border, intended for students to draw a corrected number line for Mo's multiplication.

5 A farmer is calculating the number of sheep on her farm.

She has 6 fields.

Each field has 35 sheep.

Use a written method to work out how many sheep there are altogether.

6 Here are 6 multiplications.

4×59	3×33	5×36	9×32	7×21	6×25
A	B	C	D	E	F

Which of the multiplications would you calculate mentally?

Which of the multiplications would you use a written method for?

Talk about your choices with a partner.

Complete the multiplications. Show your working where necessary.

$$4 \times 59 = \boxed{}$$

$$3 \times 33 = \boxed{}$$

$$5 \times 36 = \boxed{}$$

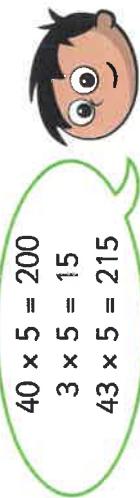
$$9 \times 32 = \boxed{}$$

$$7 \times 21 = \boxed{}$$

$$6 \times 25 = \boxed{}$$

3

4 Amir is working out 43×5



a) Talk about Amir's method with a partner.

b) Use Amir's method to complete the multiplications.

$$32 \times 6 = \boxed{}$$

$$8 \times 42 = \boxed{}$$

Monday 4th January 2021

English

LO: Can I use adverbials?

<https://www.youtube.com/watch?v=RetwwWOpt84&safe=active>

Build or draw your own shelter and describe how it can provide you with shelter/light/warmth using the word bank below.

noun or noun phrase	verb <i>will...</i>	noun (<i>ness, ment</i>)	adverbial	.
The canopy	<i>will provide</i>	shelter	<i>by keeping them dry.</i>	.
The shelter	<i>will give</i>	warmth	<i>by...</i>	.
This hut	<i>should supply</i>	light	<i>by...</i>	.

Tuesday 5th January 2021

English

LO: Can I use conjunctions

<https://www.youtube.com/watch?v=RetwwWOpt84&safe=active>

Watch the video of the story again up to 'offered myriad opportunities for pockets'. Write some predictions using conjunctions about the story. Use the examples below to help.

Observation	Conjunction	Prediction
The children follow Wesley	so	I predict Wesley will make friends with them.
Wesley writes using unfamiliar words	therefore	I think he will make his own language.

English Study Here

Conjunction is a word used to connect clauses or sentences or to coordinate words in the same clause.

A minute later	But	In fact	Nonetheless	Thereafter
Accordingly	Consequently	In short	Now	Therefore
Actually	Conversely	In spite of	Nor	Third
After	Equally important	In spite of this	Of equal importance	Thus
After a short time	Finally	In summary	On the contrary	To be specific
Afterwards	First	In the end	On the following day	To begin with
Also	For example	In the meanwhile	On the other hand	To illustrate
And	For instance	In the meantime	Other hand	To repeat
Another	For this purpose	In the same manner	Or	To sum up
As an example	For this reason	In the same way	Presently	Too
As a consequence	Fourth	Just as important	Second	Ultimately
As a result	From here on	Least	Similarly	What
As soon as	Further	Last	Since	Whatever
At last	Furthermore	Last of all	So	Whoever
At length	Gradually	Lastly	Soon	Whereas
Because	Hence	Later	Still	Whomever
Because of this	However	Meanwhile	Subsequently	When
Before	In addition	Moreover	Such as	While
Besides	In conclusion	Nevertheless	The next week	With this in mind
Briefly	In contrast	Next	Then	Yet

Wednesday 6th January 2021

English

LO: Can I discuss new vocabulary?

<https://www.youtube.com/watch?v=RetwwWOpt84&safe=active>

Read up to 'to invite the new and unknown'.

Fill in the grid below for these words from the story.

Word	Word Class (Noun, Adjective, Verb or Adverb)	What do you think it means	Dictionary definition
Miserable			
Civilization			
Alarming			
Tormentors			
Shelter			
Mumbled			
staple			
Blazed			
Ploughed			
Bedlam			
Seedlings			
tradition			

Thursday 7th January 2021

English

LO: Can I discuss opinions about a book?

<https://www.youtube.com/watch?v=RetwwWOpt84&safe=active>

Finish watching the video.

Write a book review of Westlandia. You can choose to use the template on the next page.

Book Review

Book Title:

Author:

Fiction or Non-fiction:

What is the book about?

Who would you recommend the book to? Why?

Author:

Fiction or Non-fiction:

Book Illustration

Rating: 

Can you write three facts you have learnt or three things you have learnt about one of the characters?

1.

2.

3.

Friday 8th January 2021

English

LO: Can I discuss opinions about a book?

<https://www.youtube.com/watch?v=RetwwWOpt84&safe=active>

Re watch the video

Learn some of these – ous words
poisonous, dangerous,
famous, tremendous, enormous, jealous, humorous,
glamorous, vigorous, courageous, outrageous, serious,
curious, hideous, spontaneous, courteous.

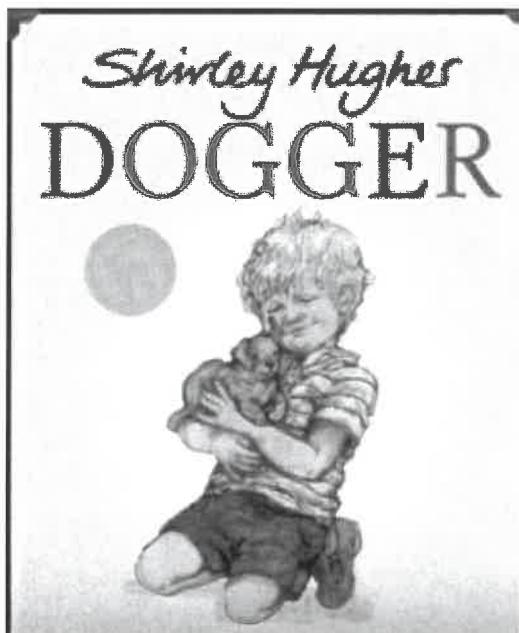
Draw a picture of Wesley and write a character description of him.

You may wish to use some of the –ous words from above.

LO: Can I understand Sacrifice and Salvation?

What do you think the story could be about?

What could be the sacrifice?



<https://www.youtube.com/watch?v=jNOYgRf5jes>

Imagine you have been stranded on a desert Island.

What 5 things would you take, that you could not live without?

Why are these things important to you?

How do you use these things in life?

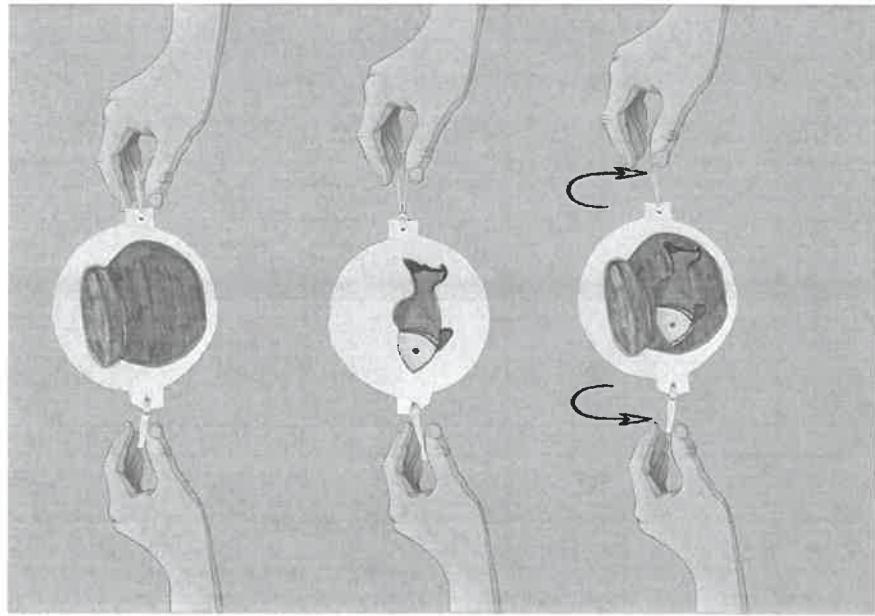
If you had to sacrifice one thing at a time, which thing would you give up? Why?

Task 1 - Create your own Thaumotrope

What you need:

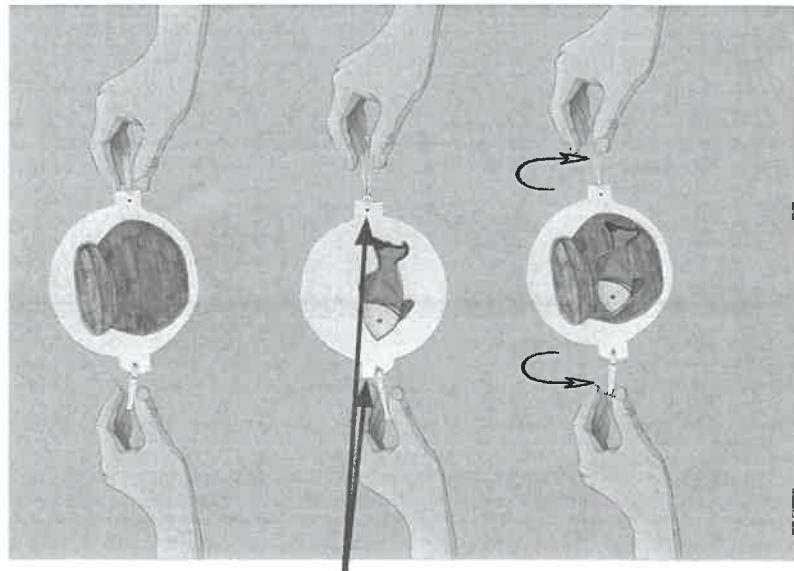
Card, pencil, lid to trace round (about 8 cm),
coloured crayons/ felt tip pens, scissors, string or
two elastic bands

1. Decide on two images that will make an interesting image when combined e.g. fish and fishbowl, bird and cage, butterfly and jar.
2. On the card, use your pencil to draw around the lid. Cut out the circular shape.



Task 1 - Create your own Thaumotrope (cont.)

3. Draw an image on one side of the circle and then flip it up over (horizontally) and draw your other image on the back of the card.
4. Ask an adult to help you use the tip of your scissors to make a small hole near the edge on opposite sides of the circle.
5. Thread elastic bands or string through the holes.
6. Spin the disk by twirling the bands or string between your thumb and index finger.
7. Your images should appear together



Task 3 - Create your own storyboard

Plan your storyboard using the table on the next slide

Consider:

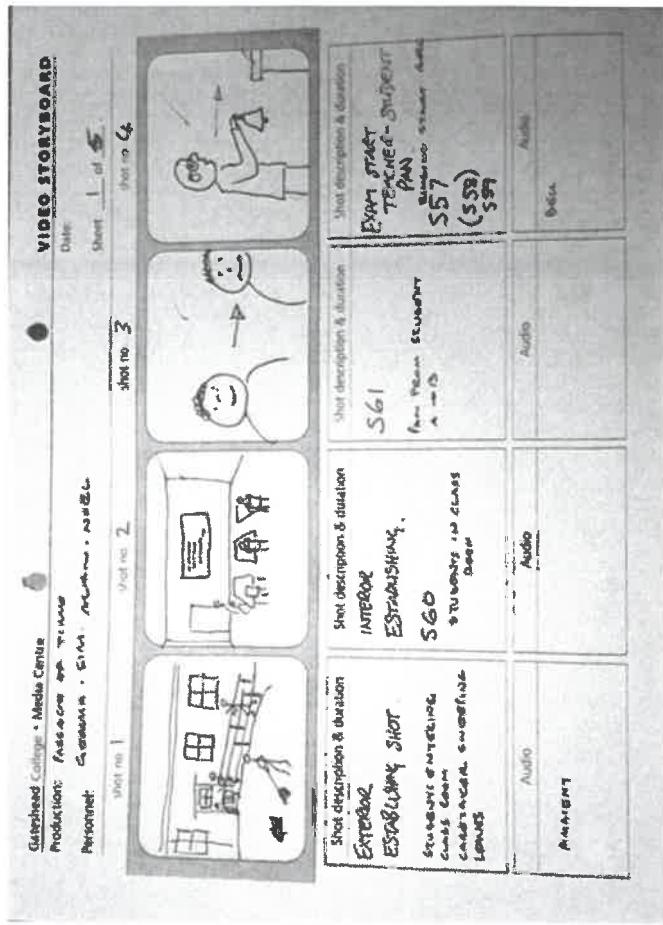
Message

Theme

Plot

Characters

Props



Task 2: Storyboard your ideas

Scene:	Scene:	Scene:
Notes:	Notes:	Notes:
Scene:	Scene:	Scene:
Notes:	Notes:	Notes:

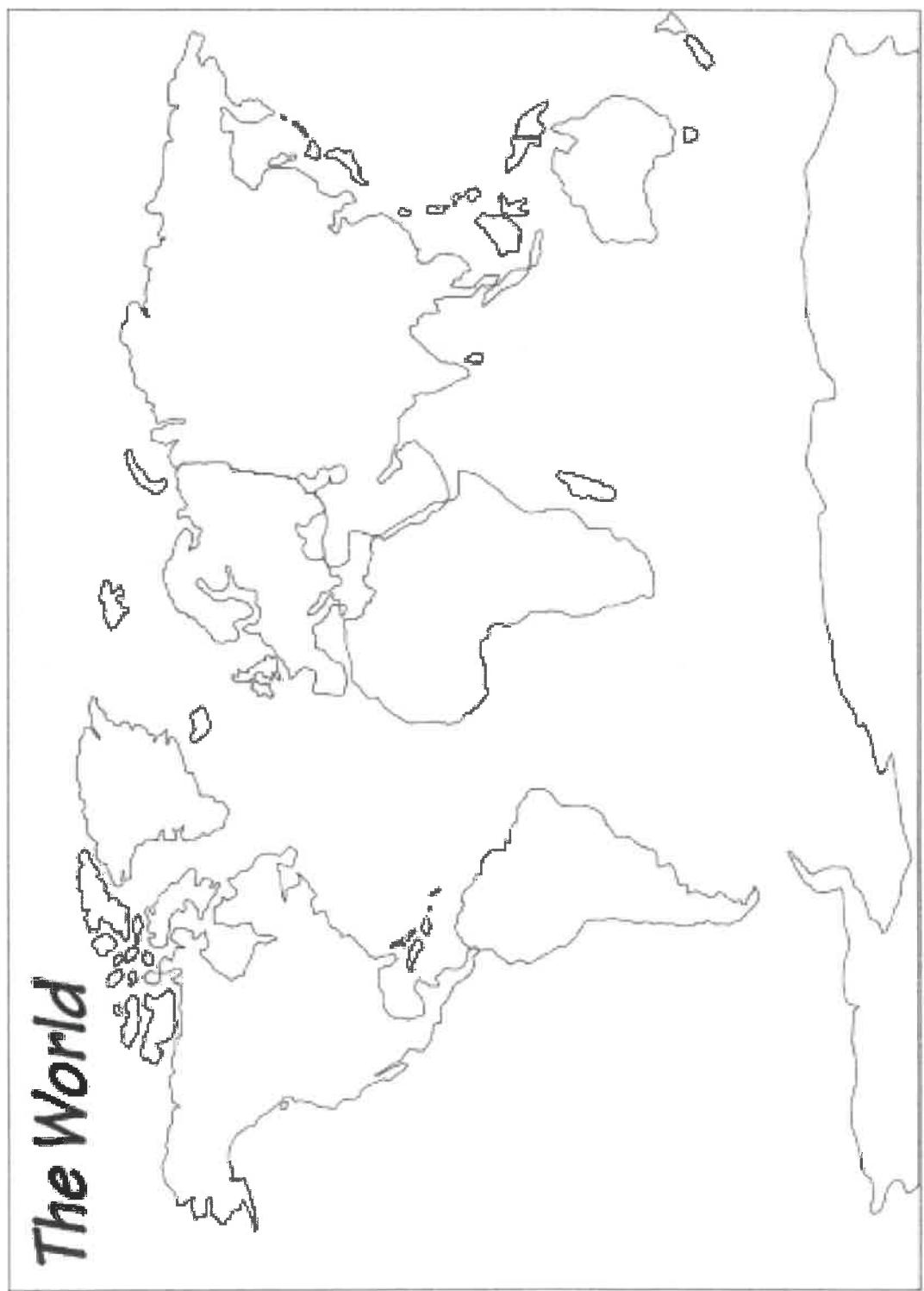
Science – make a list of solids, liquids and gases you can find around your house or you know of.

Example	Solid, liquid or gas?	Why?
Water in a glass	
Air in a balloon	
A wooden block	

Geography: South America

Can you label the seven continents of the world?

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.



Can you name any countries in the continent of South America?

SOUTH AMERICA



There are 12 in total! What do you notice about the map above? How many countries are actually in the continent of South America?

How can we define different geographical features?

Physical geographical features

The natural landscape of the Earth

e.g. mountains, lakes, beaches, rainforests.

Human geographical features

Things related to the behaviour of humans

e.g. cities, villages, shops, factories, schools.

What human geographical features can you list in Norfolk and our surrounding area?

What physical geographical features can you list in Norfolk and our surrounding area?

Amazon Rainforest

Rivers and Waterfalls



Iguazu Falls, Argentina/Bolivia

Angel Falls, Venezuela

Atacama Desert



Salt Flats



Andes Mountain Range



Playa Arrecifes, Colombia

Punta del Este, Uruguay

How are the physical features where you live similar or different from the physical features we have looked at in South America?

Write down any physical geographical features that can be found in your area.

How is the geography of your area similar or different to South America?

I live in

Some physical features in my area are ...

One similarity between the geography of my area and South America is

One difference between the geography of my area and South America is ...

TASK:

Write three or more sentences comparing the physical geography in your area to the physical geography of South America.