Multiplication Superheroes

The evil Maths Minion must be defeated.
Help the superheroes find the right path to defeat him!

Follow the path which contains numbers that are multiples of 10

10	35	65	55	75	70	20
80	20	30	40	90	100	75

Follow the path which contains numbers that are multiples of 5

10	35	41	67	55	70	20
23	20	30	20	85	93	54

Follow the path which contains numbers that are multiples of 2

13	35	46	60	54	77	20
22	28	34	27	86	92	50

Multiplication Superheroes

10 times table	5 times table	2 times table
1 x 10 = 10	1 x 5 = 5	1 x 2 = 2
2 x 10 = 20	2 x 5 = 10	2 x 2 = 4
3 x 10 = 30	3 x 5 = 15	3 x 2 = 6
4 x 10 = 40	4 x 5 = 20	4 x 2 = 8
5 x 10 = 50	5 x 5 = 25	5 x 2 = 10
6 x 10 = 60	6 x 5 = 30	6 x 2 = 12
7 x 10 = 70	7 x 5 = 35	7 x 2 = 14
8 x 10 = 80	8 x 5 = 40	8 x 2 = 16
9 x 10 = 90	9 x 5 = 45	9 x 2 = 18
10 x 10 = 100	10 x 5 = 50	10 x 2 = 20
11 x 10 = 110	11 x 5 = 55	11 x 2 = 22
12 x 10 = 120	12 x 5 = 60	12 x 2 = 24

Follow the path which contains numbers that are multiples of both 10 and 2

10	35	60	50	90	77	25
80	20	30	45	46	100	70

Follow the path which contains numbers that are multiples of both 5 **and** 2

10	40	45	68	54	38	25
24	20	30	50	100	40	10

Remember: numbers that are multiples of 2 are all even. That means they have an even number in the units / ones column.

Quick!
The evil Maths Minion is escaping!

Multiplication Superheroes

Help our superheroes cross the rope bridge by completing the number sequences. Fill in the missing gaps.

30 60

20 35

6 12

55

26

Multiplication and Division Superheroes

Multiplication and Division are the opposite of each other.

Let's look at an example:

4 x 5 = 20

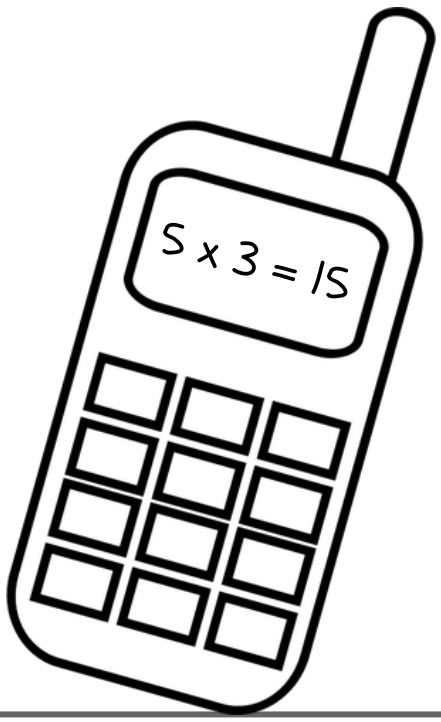
If we use the answer and divide it by one of the other numbers, look at the answer number...what do you notice?

20 ÷ 5 = 4

What is the other division sum we can do using the same numbers?

20 ÷ 4 = 5

Help the superheroes crack these codes. What are the opposite, division sums we could write?



15 ÷ 3 = 5

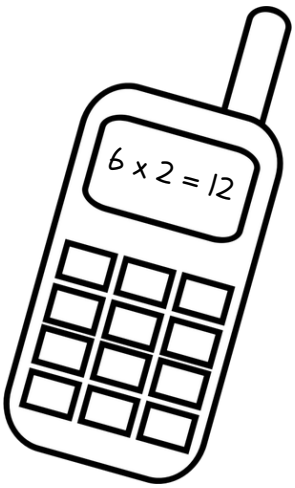
15 ÷ 5 = 3

Multiplication and Division Superheroes

Multiplication and Division are the opposite of each other.

Look at the sum and then write down two sums that use the same numbers but are division sums.

1



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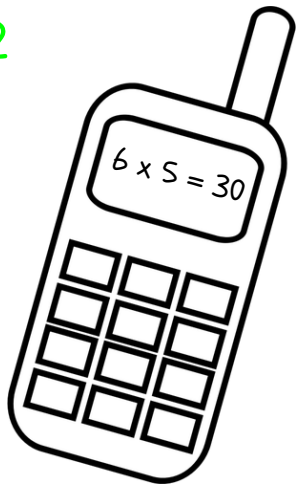

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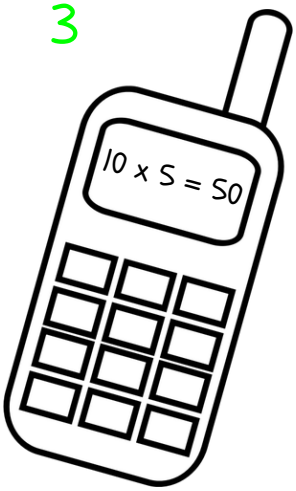

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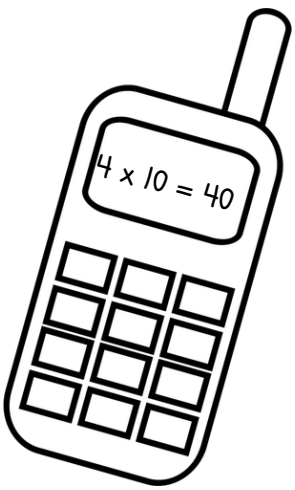

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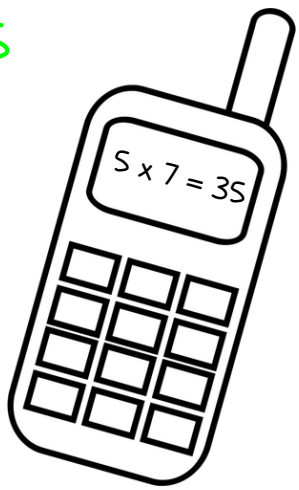

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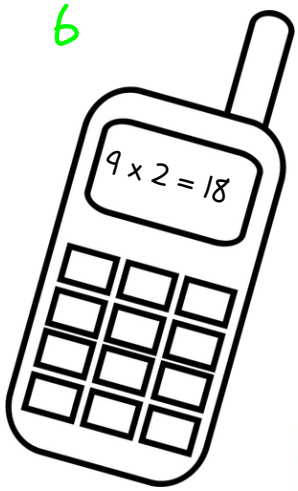


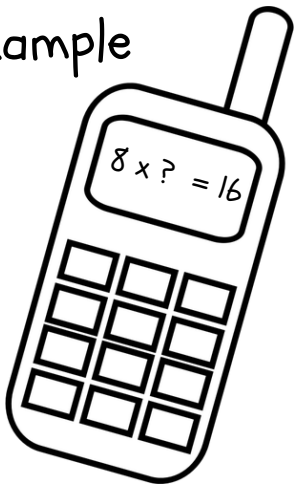
Multiplication and Division Superheroes

DANGER! Take care with number 4 and 5 !

Multiplication and Division are the opposite of each other.

Look at the sums and see if you can work out the missing numbers and then write the opposite (inverse) sums beneath.

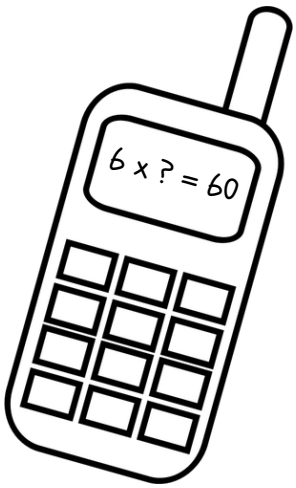
Example



16 ÷ 8 = 2

16 ÷ 2 = 8

1



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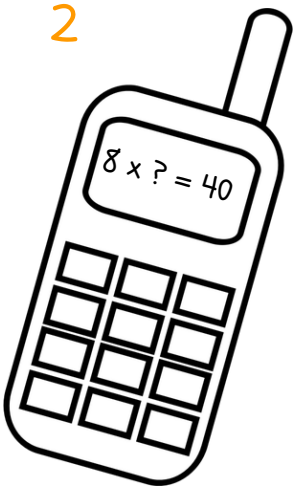

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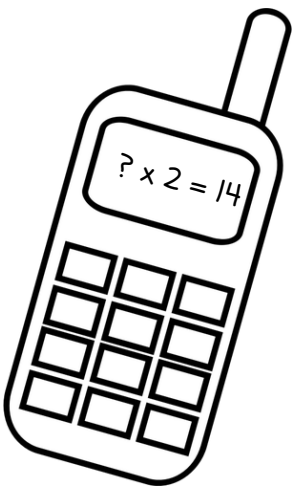

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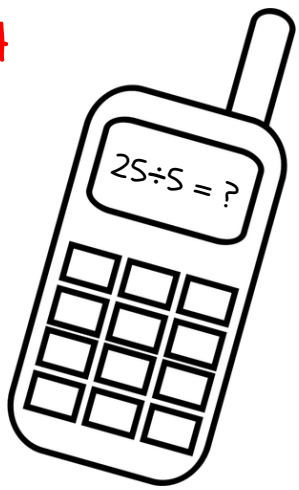

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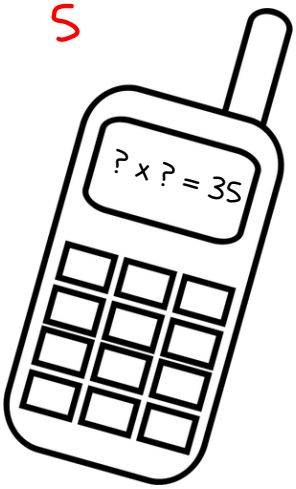
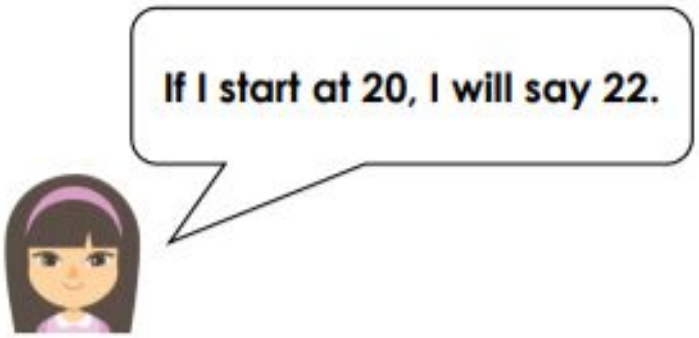


Count in 2s, 5s, 10s

1a. Lila is counting forwards in 5s.

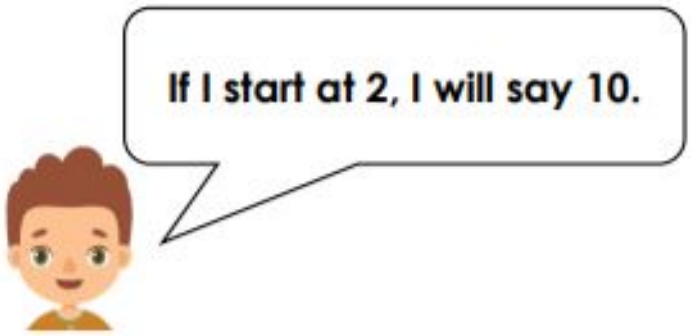


Is she correct? Prove it.

D R

Count in 2s, 5s, 10s

1b. Jude is counting forwards in 2s.



Is he correct? Prove it.

D R

2a. Find your way through the maze by counting forwards through multiples of 10.

Start →	30	40	50	85
	28	35	60	70 → Finish
	90	100	22	34
	29	58	86	51

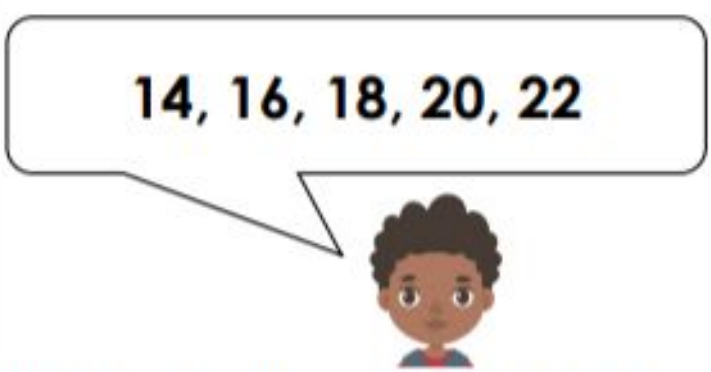
D PS

2b. Find your way through the maze by counting forwards through multiples of 5.

Start →	10	15	20	25
	5	10	37	30 → Finish
	16	12	25	62
	48	45	22	24

D PS

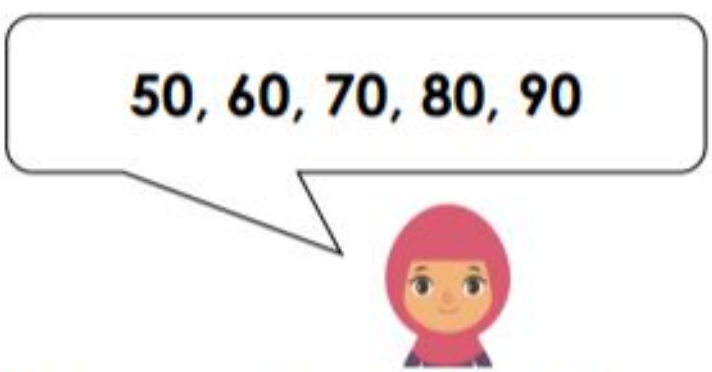
3a. Jaylin says the following numbers:



What number will he say next? Explain how you know.

D R

3b. Anya says the following numbers:



What number will she say next? Explain how you know.

D R

Count in 2s, 5s, 10s

4a. Larissa is counting backwards in 2s.

If I start at 38, I will say 30.

Is she correct? Prove it.

R

Count in 2s, 5s, 10s

4b. James is counting forwards in 10s.

If I start at 12, I will say 20.

Is he correct? Prove it.

R

5a. Find your way through the maze by counting backwards through multiples of 5.

Start →	45	40	92	80
	28	35	30	100
	91	19	25	20
	33	47	87	15 → Finish

PS

5b. Find your way through the maze by counting forwards through multiples of 2.

Start →	12	35	92	77
	14	16	37	36
	75	18	25	91
	33	20	22	24 → Finish

PS

6a. Thomas says the following numbers:

39, forty-nine, 59, sixty-nine, 79

What number will he say next? Explain how you know.

R

6b. Rayne says the following numbers:

ninety-five, 90, eighty-five, 80, 75

What number will she say next? Explain how you know.

R

Answers to
Count in 2's, 5's and 10's

Developing

1a. She is incorrect because 22 is a multiple of 2.

2a. 30, 40, 50, 60, 70

3a. 24 because he is counting forwards in 2s.

Expected

4a. She is correct because 30 is a multiple of 2.

5a. 45, 40, 35, 30, 25, 20, 15

6a. 89 because he is counting forwards in 10s.

Developing

1b. He is correct because 10 is a multiple of 2.

2b. 10, 15, 20, 25, 30

3b. 100 because she is counting forwards in 10s.

Expected

4b. He is incorrect because 12 + 10 = 22

5b. 12, 14, 16, 18, 20, 22, 24

6b. 70 because she is counting backwards in 5s.

Extension maths

These activities are extra if your child has managed to independently work through the oher daily activities.

You are more than welcome to sit with them and discuss the questions as they attempt them, as this can help consolidate their thinking and reasoning.

1. Put these numbers in order from smallest to largest.

A. two tens and seven ones

B. four tens and five ones

C. three tens and nine ones

D. eight tens and four ones

E. six tens and two ones

F. two tens and eight ones

G. zero tens and nine ones

H. seven tens and one one

I. six tens and six ones

J. eight tens and zero ones

Choose numbers from above to complete this statement:

	>		=	45	<		<		>			

2. Find the gold, silver and bronze medal winners of sports day by adding up the points each class got for each event. The class with the most points at the end of the day wins!

	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Relay race	18	29	25	24	29	22
Capture the flag	28	21	21	23	24	19
Dance-off	29	19	24	21	17	25
Egg and spoon race	16	28	25	20	26	23
Total Points:						

Which class won the gold medal?

Which classes won silver and bronze?

How many more points did Year 2 get than Year 4?

Extension maths

Answers

1. Put these numbers in order from smallest to largest.

A. two tens and seven ones
B. four tens and five ones
C. three tens and nine ones
D. eight tens and four ones
E. six tens and two ones
F. two tens and eight ones
G. zero tens and nine ones
H. seven tens and one one
I. six tens and six ones
J. eight tens and zero ones

G	A	F	C	B	E	I	H	J	D

Choose numbers from above to complete this statement:

D (84)	>	B (45)	=	45	<	H (71)	<	J (80)	>	I (66)

2. Find the gold, silver and bronze medal winners of sports day by adding up the points each class got for each event. The class with the most points at the end of the day wins!

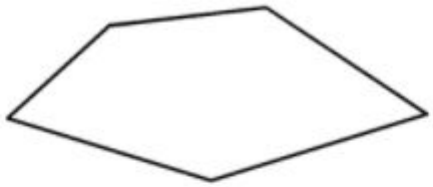
	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Relay race	18	29	25	24	29	22
Capture the flag	28	21	21	23	24	19
Dance-off	29	19	24	21	17	25
Egg and spoon race	16	28	25	20	26	23
Total Points:	91	97	95	88	96	89

Which class won the gold medal? Year 2

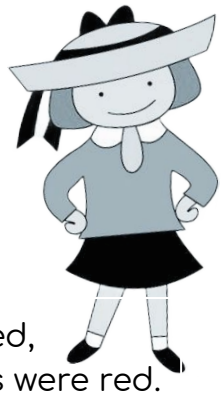
Which classes won silver and bronze? Silver: Year 5, Bronze: Year 3

How many more points did Year 2 get than Year 4? 9

Mental Maths

1)	5 + 7	
2)	Half of 10	
3)	How many sides? 	
4)	12 - 5	
5)	Write down the number one hundred and eighty-two	
6)	40 + 6	
7)	Double 8	
8)	5 x 3	
9)	What is the next number? 24, 23, 22, 21, 20, ___	
10)	What is the value of the digit 5 in the number 57?	
11)	How many TENS make 40p?	
12)	A football costs £10. How much do 3 footballs cost?	
13)	How many minutes in an hour?	
14)	What is 10 more than 23?	
15)	How much money? 	p
16)	I am facing north. I turn a half-turn. What direction am I facing now?	

Madeline



In an old house in Paris
that was covered in vines

Lived twelve little girls in two straight lines
in two straight lines they broke their bread
and brushed their teeth
and went to bed

They smiled at the good
and frowned at the bad

And sometimes they were very sad

They left the house at half past nine,
in two straight lines
in rain or shine -
the smallest one was Madeline

She was not afraid of mice
She loved winter, snow and ice

To the tiger on the zoo
Madeline just said, “Pooh, pooh,”

And nobody knew so well
how to frighten Miss Clavel

In the middle of the night
Miss Clavel turned on her light
and said, “Something is not quite right!”

Little Madeline sat in bed,
cried and cried;her eyes were red.

And soon after Doctor Cohn
came, he rushed out to the phone
and he dialled:DAN-don-ten-six-
“Nurse,” he said “it’s an appendix!”

Everybody had to cry -
not a single eye was dry
Madeline was in his arm
in a blanket, safe and warm

In a car with a red light
they drove out into the night

Madeline woke two hours
later, in a room with flowers.

Madeline soon ate and drank.
On her bed, there was a crank,
and a crack on the ceiling that had a habit
of sometimes looking like a rabbit.

Outside were birds, trees and sky-
and so ten days passed quickly by.

Madeline

One fine morning miss Clavel
said-
"Isn't this a fine-
day to visit
Madeline."

VISITORS FROM TWO TO FOUR
read a sign outside her door.
Tiptoeing with solemn face,
with some flowers and a vase,

In the walked and then said
"Ahhh,"
when they saw the toys and
candy
and the dolls house from Papa.

But the biggest surprise by far -
on her stomach
was a scar!

"Good-by", they said, " we'll come
again,"
and the little girls left in the rain.

They went home and broke their
bread,
brushed their
and went to bed

In the middle of the night
Miss Clavel turned on her light
and said, "Something is not
right!"

And afraid of a disaster
Miss Clavel ran fast
and faster
And said, "Please children do -
tell me what is troubling you?"

And all the little girls cried, " Boo
how,
we want to have our appendix
out, too!"

"Good night little girls -
Thank the Lord you are well!
Now go to sleep!
said Miss Clavel.

And she turned out the light-
and closed the door-
and that's all there is-
there isn't any more.

Madeline

Be a detective

Watch the flip through of the story and then have a go at answering the questions. You can use the video to help you if you get stuck.

1. Where does Madeline live?
2. Describe at least three things that Madeline and her friends do.
3. How is Madeline different from the other girls?
4. What wakes Miss Clavel the first time?
5. Why do all the girls cry when they come back from hospital?

Bonus questions: What do you think?

1. What words would you use to describe Madeline? Can you think of at least three?
2. Would you like to have Madeline as a friend? Explain why you would or why you would not.

Madeline

Text to self

Now you have read the story, made it your own and maybe watched the video as well, let's look at the story, character and plot.

Is there anything in the story that you can relate to? Anything that you have experienced before?

Have you been to any of the places mentioned in the story? France? Paris?
Have you been to a school?
Have you been to the zoo?
Have you frowned when people do naughty things?
Have you been to hospital before?

Think about the story and characters and see if you can pick out anything you have experienced before.

Text to text

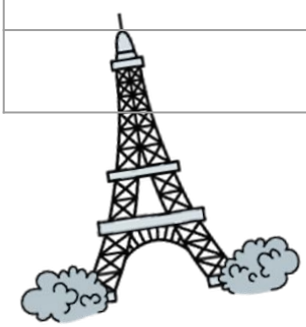
Does the story Madeline remind you of any other books that you have read that have similar themes or things that happen in them?

Do you know a book about school?
Do you know a book where someone becomes poorly?
Do you know a book that is set in another country?
Do you know a book about an adventurous girl?

Madeline

Text to self

Text to text



Tell us about things you have experienced that also happen in the story of Madeline and any books that have similar things / characters in them.

Madeline

Role on the wall

What do you know about the main character, Madeline?
Write words of phrases that describe what you think Madeline is like and what we know about her..

Now write a paragraph about Madeline.
What can you tell us about her?
Remember full stops and capital letters.

Madeline

Persuasive writing

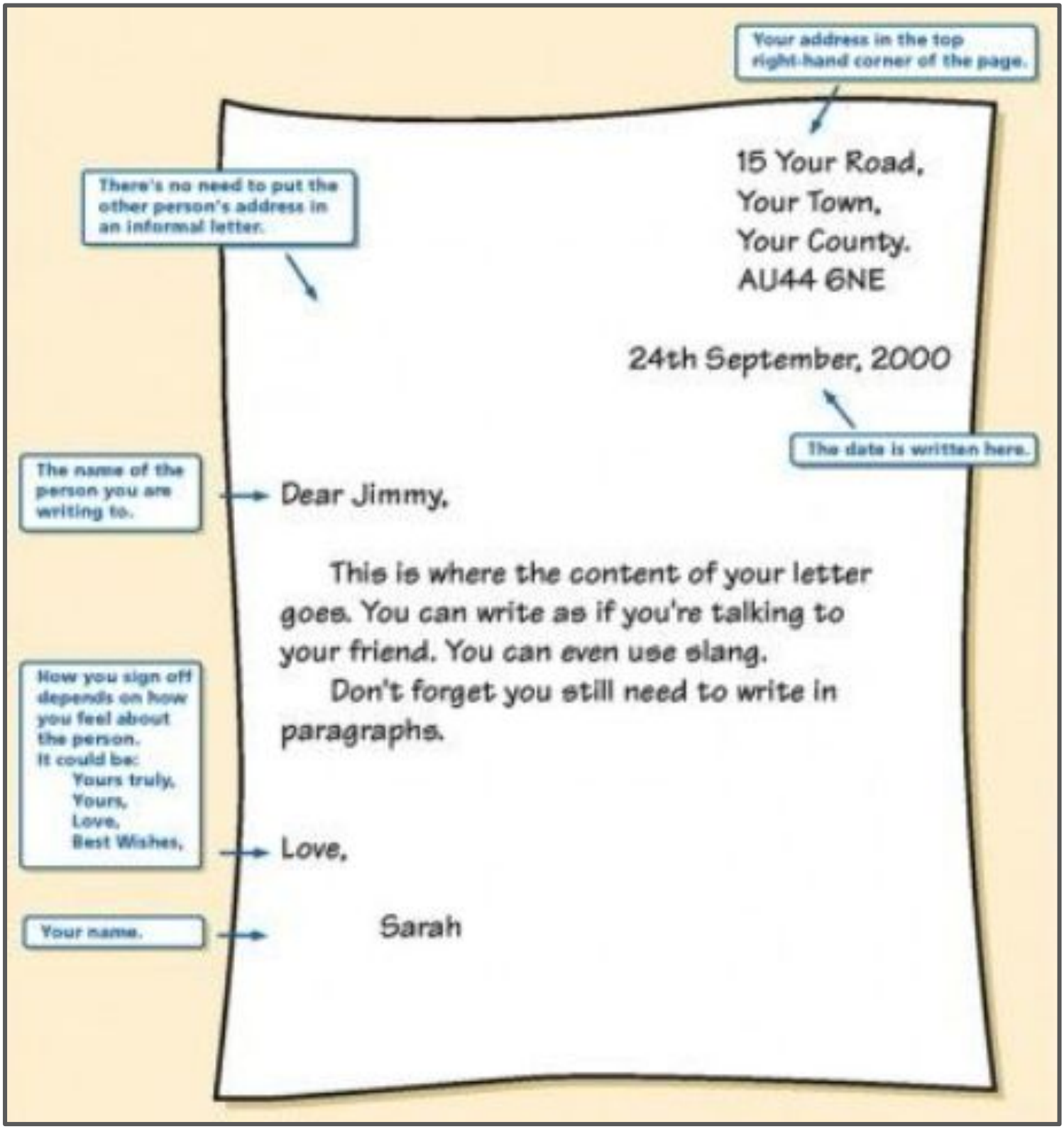
Madeline attends a school in Paris, France.
Do you think it is the same kind of school to your school?
What do you think is the same and what is different?

I would like you to think about what is great about your school and try to convince Madeline to come to your school instead.

Make a list of the great things about your school.

What do you know about the main character, Madeline?
Write words of phrases that describe what you think Madeline is like.

Informal letter to Madeline



Madeline

Persuasive writing

Writing a letter to Madeline
Let us now write a letter to Madeline to try and convince her to come to our school.

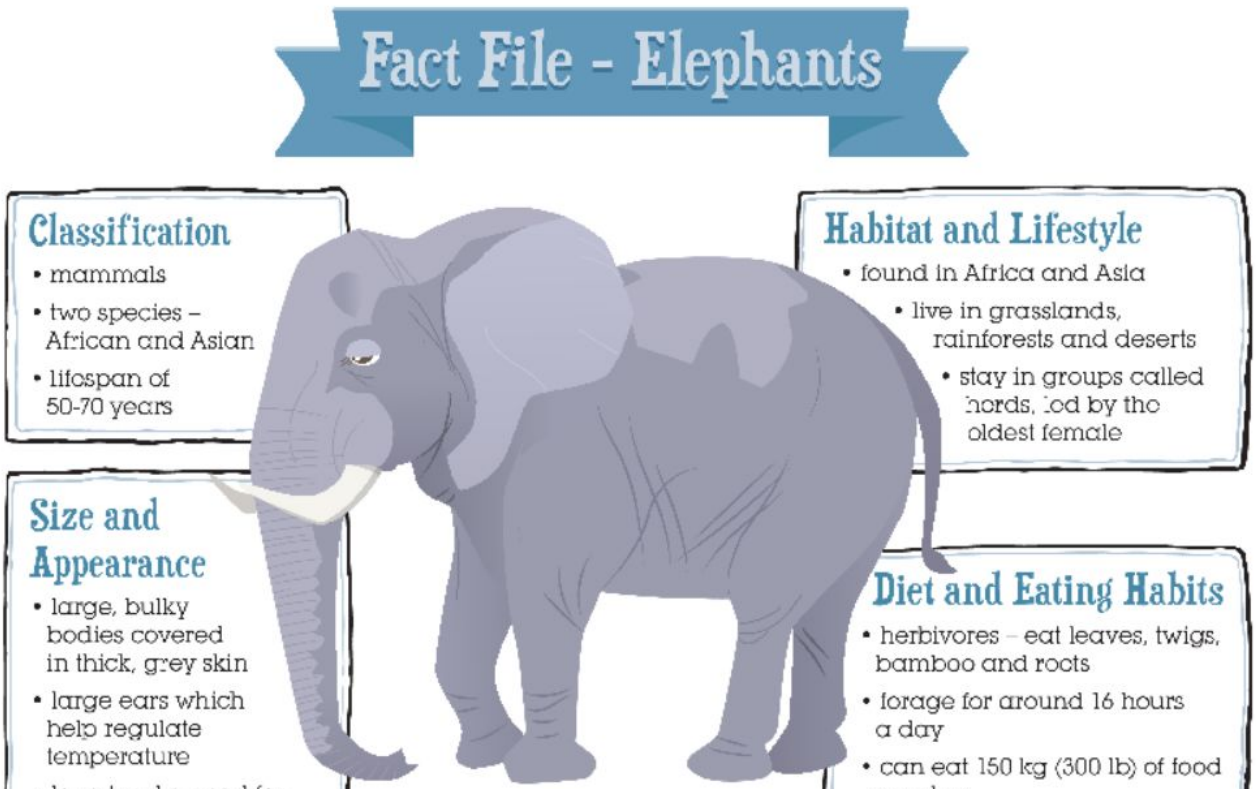
What do you know about the main character, Madeline?
Write words of phrases that describe what you think Madeline is like.

Science
Animal fact file

Create an animal fact file for one of the Invertebrates or Vertebrates you looked at last lesson.

Here is an example:

Vertebrate
I have chosen an elephant. An elephant has a backbone and is a mammal.
They are vertebrates.



Science
Animal fact file

R.E.

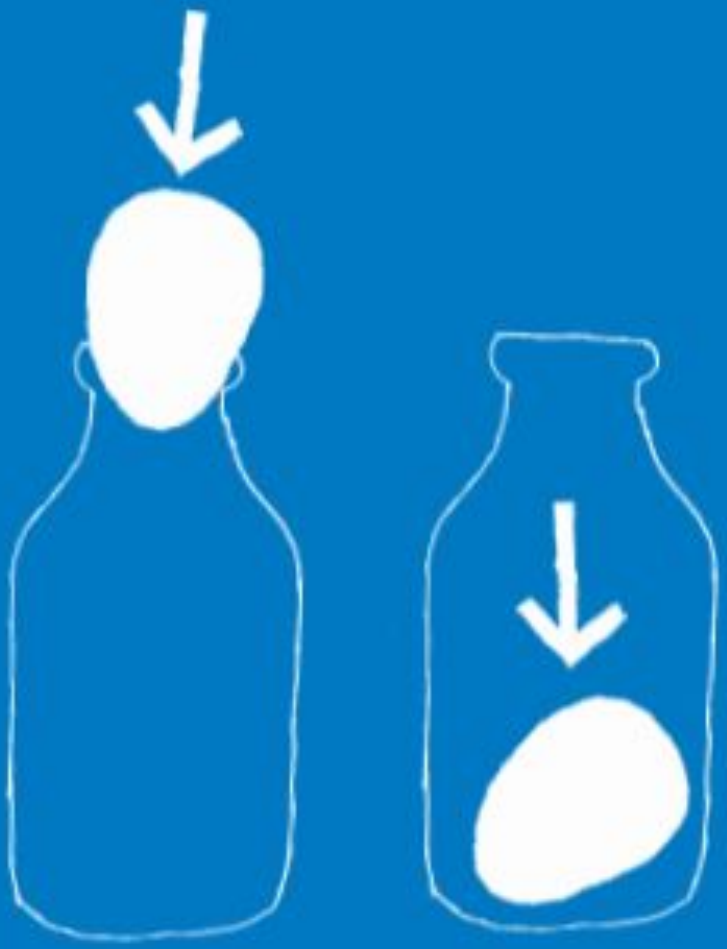
A special place for Christians

Why is the church a special place for Christians?
What events or ‘rites of passage’ happen in a church?
How does it make you feel when you visit a church?

SCIENCE
CHALLENGE

01

CHANGING STATES



CHANGING STATES

SCIENCE CHALLENGE 01

Designed by Charles,
Design engineer at Dyson

The brief

Make an egg fit into a bottle without breaking it.

The method

1. Submerge the egg in a glass of vinegar for two days: the shell will become rubbery.
2. Heat the bottle in hot water – remember to use gloves or a tea towel when handling it.
3. Rest the egg on the neck of the bottle.
4. As the air inside the bottle cools down, it will contract and suck the egg down.

Top tip

Try lubricating the egg with cooking oil or washing up liquid.

Materials

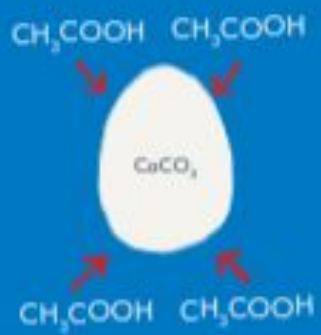
- An uncooked egg
- A pan of boiling water (with adult supervision)
- A glass of vinegar
- A wide-mouthed glass bottle

How does it work?

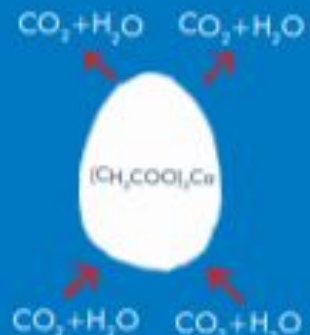
Eggs are rich in protein. When heat is applied, chemical bonds within the protein molecules are broken, and new bonds are formed between adjacent molecules. This creates a network of inter-connected proteins which causes the egg to go hard.

Vinegar contains acetic acid (CH_3COOH) that dissolves the calcium carbonate ($CaCO_3$) shell but leaves behind the egg's springy membrane.

Before



After



Reflections

How has your week been?

Think about the three school values of
Love, Hope and Justice

Can you think of anything that has happened over the last few weeks, either at home or that you have heard of that would come under these three values?

What hopes do you have for the coming weeks or months?
Who has shown they care and how?
Who has shown fairness and honesty, maybe in your household?

Spellings

To understand that most words with two syllables that end in the l sound are spelt with –le

rattle
purple
simple
handle
triangle
little
middle
jungle
battle
bubble