

Maths Through the Year: Record of activities



Autumn 2019 (First half)

Year	Event	Date	Name of Activity	Mathematics Topics
Reception	World Space Week	4 th – 10 th October	Build a rocket	Shape, space and measures
1	World Teachers' Day	5 th October	Crack the code	Number – addition and subtraction
2	International Walk to School Month	1 st – 31 st October	What do you see?	Statistics
3	European Day of Languages	26 th September	Nombres jusqu'à 100 en français	Number – number and place value
4	World Heart Day	29 th September	How much sugar?	Number – multiplication and division / Measurement / Statistics
5	World Post Day	9 th October	Match the paper and envelopes	Measurement
6	Chocolate Week	14 th – 20 th October	Chocolate	Number – fractions (including decimals and percentages) / Measurement / Statistics

To download more free activities and find out how Busy Ant Maths can support your school, visit collins.co.uk/BusyAntMaths

Build a rocket



We're celebrating World Space Week!

Work in pairs.

- Use the recycled materials to design a rocket.
- Draw a plan of your rocket.
- Work together to build your rocket.
- When you've built your rocket, draw your rocket.

You will need:

- recycled materials
- glue and tape
- card and paper

A plan of our rocket.

Our finished rocket.

Talk about the shapes used to build your rocket.

Crack the code



We're celebrating World Teachers' Day!

- Work out the answers to the questions.
- Then work out the answer to the joke by writing the correct letter below each number in the grids at the bottom of the sheet.

Why did the teacher wear sunglasses?



$18 - 10 = \square \text{ R}$

$7 + 4 = \square \text{ L}$

$12 - 6 = \square \text{ G}$

$9 - 5 = \square \text{ B}$

$8 + 8 = \square \text{ T}$

$15 + 3 = \square \text{ W}$

$12 - 2 = \square \text{ A}$

$16 - 7 = \square \text{ H}$

$10 - 7 = \square \text{ O}$

$11 + 1 = \square \text{ S}$

$9 + 6 = \square \text{ I}$

$10 + 4 = \square \text{ C}$

$13 + 7 = \square \text{ E}$

$14 - 9 = \square \text{ U}$

4	20	14	10	5	12	20

9	20	8

14	11	10	12	12

18	10	12

12	3

4	8	15	6	9	16

!

Crack the code



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$7 + 4 = \boxed{11} \quad \mathbf{L}$

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$9 - 5 = \boxed{4} \quad \mathbf{B}$

$8 + 8 = \boxed{16} \quad \mathbf{T}$

$15 + 3 = \boxed{18} \quad \mathbf{W}$

$12 - 2 = \boxed{10} \quad \mathbf{A}$

$16 - 7 = \boxed{9} \quad \mathbf{H}$

$10 - 7 = \boxed{3} \quad \mathbf{O}$

$11 + 1 = \boxed{12} \quad \mathbf{S}$

$9 + 6 = \boxed{15} \quad \mathbf{I}$

$10 + 4 = \boxed{14} \quad \mathbf{C}$

$13 + 7 = \boxed{20} \quad \mathbf{E}$

$14 - 9 = \boxed{5} \quad \mathbf{U}$

4	20	14	10	5	12	20
B	E	C	A	U	S	E

9	20	8
H	E	R

14	11	10	12	12
C	L	A	S	S

18	10	12
W	A	S

12	3
S	O

4	8	15	6	9	16
B	R	I	G	H	T

!

What do you see?



We're celebrating International Walk to School Month!

Walking to school is a great way to keep fit and healthy. You can also see lots of interesting things on the way.

On your walk with an adult to and from school, look at what you can see. Each time you spot something in the chart below make a mark in the Tally column. After your walk, complete the total column.

Things we see	Tally	Total
Bicycle		
Bus		
Motorcycle		
Road sign		
Crossing		
Post box		
Cat		
Dog		
Bird		
Shop		
Gate		
Pushchair		

Using the information in the table, write three statements about the things you saw on your journey.

Nombres jusqu'à 100 en français



We're celebrating the European Day of Languages!

Below are the numbers 0 to 10 and the multiples of 10 to 100 written as numerals and as words in French.

0	1	2	3	4	5	6	7	8	9
zéro	un	deux	trois	quatre	cinq	six	sept	huit	neuf

10	20	30	40	50
dix	vingt	trente	quarante	cinquante

60	70	80	90	100
soixante	soixante-dix	quatre-vingts	quatre-vingt-dix	cent

Use the tables to write the missing numeral or word.

57
cinquante-sept

36

soixante-huit

quarante-neuf

vingt-trois

42

trente-quatre

65

27

What patterns do you notice about how you write numbers as words in French?

Just like in English, there are some exceptions when writing numbers to 100 as words in French.

- Investigate how to write the teen numbers in French.
- Investigate how to write the numbers 21, 31, 41, 51 and 61 in French.
- Investigate how to write the numbers 71 to 79 in French.
- Investigate how to write the numbers 81 to 89 in French.
- Investigate how to write the numbers 91 to 99 in French.

Nombres jusqu'à 100 en français



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soixante	soixante-dix	quatre-vingts	quatre-vingt-dix	cent

57
<i>cinquante-sept</i>

36
<i>trente-six</i>

68
<i>soixante-huit</i>

49
<i>quarante-neuf</i>

23
<i>vingt-trois</i>

42
<i>quarante-deux</i>

34
<i>trente-quatre</i>

65
<i>soixante-cinq</i>

27
<i>vingt-sept</i>

Use the tables to write the missing numeral or word.

What patterns do you notice about how you write numbers as words in French?

Just like in English, there are some exceptions when writing numbers to 100 as words in French.

- Investigate how to write the teen numbers in French.

11 onze	12 douze	13 treize	14 quatorze	15 quinze
16 seize	17 dix-sept	18 dix-huit	19 dix-neuf	

- Investigate how to write the numbers 21, 31, 41, 51 and 61 in French.

21 vingt et un	31 trente et un	41 quarante et un	51 cinquante et un	61 soixante et un
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- Investigate how to write the numbers 71 to 79 in French.

71 soixante et onze	72 soixante-douze	73 soixante-treize	74 soixante-quatorze	75 soixante-quinze
76 soixante-seize	77 soixante-dix-sept	78 soixante-dix-huit	79 soixante-dix-neuf	

- Investigate how to write the numbers 81 to 89 in French.

81 quatre-vingt-un	82 quatre-vingt-deux	83 quatre-vingt-trois	84 quatre-vingt-quatre	85 quatre-vingt-cinq
86 quatre-vingt-six	87 quatre-vingt-sept	88 quatre-vingt-huit	89 quatre-vingt-neuf	

- Investigate how to write the numbers 91 to 99 in French.

91 quatre-vingt-onze	92 quatre-vingt-douze	93 quatre-vingt-treize	94 quatre-vingt-quatorze	95 quatre-vingt-quinze
96 quatre-vingt-seize	97 quatre-vingt-dix-sept	98 quatre-vingt-dix-huit	99 quatre-vingt-dix-neuf	

How much sugar?



We're celebrating World Heart Day!

Eating too much sugar can cause you to put on weight. If you're overweight you're more likely to develop heart disease than someone who is a healthy weight. So, to keep your heart healthy, it's important to watch the sugar in your diet. One of the easiest ways to consume too much sugar is through what we drink.

You will need:

- squared paper
- ruler

The table below shows some of the different beverages that we sometimes drink and approximately how much sugar is in each of them.

Complete the table to show how many full and half-full teaspoons of sugar are in each drink.

- All of the drinks are for a 200ml serving.
- 4 grams is approximately 1 teaspoon of sugar.

Drink	Amount of sugar (in grams)	Number of teaspoons of sugar
Water	0 g	
Milk	10 g	
Flavoured water	12 g	
Orange squash	14 g	
Fruit juice	20 g	
Fizzy drink	22 g	
Smoothie	24 g	

Using the information in the completed table, draw a pictogram to represent approximately how many teaspoons of sugar there are in each of the seven drinks.

Use as your key:  4g = 1 teaspoon

Think about how you're going to represent amounts such as 10g.

When you've finished your pictogram write three statements comparing the amount of sugar in each of the drinks. Using the data in the table and pictogram, can you work out approximately how many teaspoons of sugar there are in a normal serving size of some of the drinks? For example, a can of fizzy drink is generally 330ml.

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- All of the drinks are for a 200ml serving.
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Drink	Amount of sugar (in grams)	Number of teaspoons of sugar
Water	0 g	0
Milk	10 g	2½
Flavoured water	12 g	3
Orange squash	14 g	3½
Fruit juice	20 g	5
Fizzy drink	22 g	5½
Smoothie	24 g	6

Using the information in the completed table, draw a pictogram to represent approximately how many teaspoons of sugar there are in each of the seven drinks.

Use as your key:  4g = 1 teaspoon

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When you've finished your pictogram write three statements comparing the amount of sugar in each of the drinks. Using the data in the table and pictogram, can you work out approximately how many teaspoons of sugar there are in a normal serving size of some of the drinks? For example, a can of fizzy drink is generally 330ml. (e.g. 36 g = 9 teaspoons)

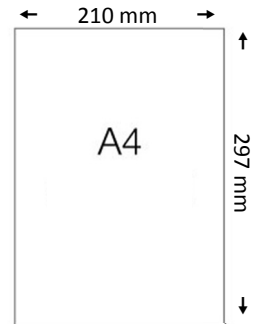
Match the paper and envelopes



We're celebrating World Post Day!

Most correspondence that is sent through the post is done so on paper of a certain size. This paper is referred to as A4. Standard A4 paper size is 297 mm x 210 mm.

In order to fit into an envelope, A4 paper is sometimes folded into halves, thirds or quarters.



A4 unfolded	A4 folded once	A4 folded twice	A4 folded twice
<input type="text"/>	<input type="text"/>	<input type="text"/>	<input type="text"/>

Envelopes come in different standard sizes. The most commonly used sizes of envelopes are:

114 x 162 mm

(C6)

110 x 220 mm

162 x 229 mm

324 x 229 mm

1. Using all of the information above, can you work out which size envelope is designed to fit which unfolded or folded sheet of A4 paper? Write the dimensions of the envelope in the box under the corresponding sheet of paper above.

2. Explain your reasoning.

3. Each of the four sizes of envelope have a special abbreviation based on their size:

(C4)

(C5)

(C6)

(DL)

Which abbreviation do you think corresponds to each of the four envelopes above? Write the abbreviation in the circle under the corresponding dimensions. C6 has been given to you as a clue.

4. Explain your reasoning.

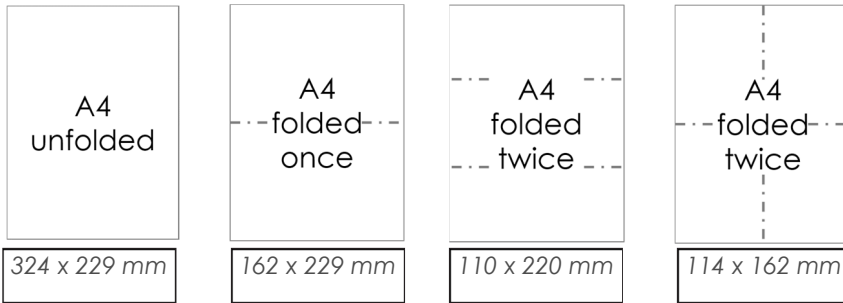
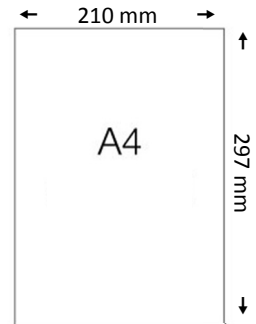
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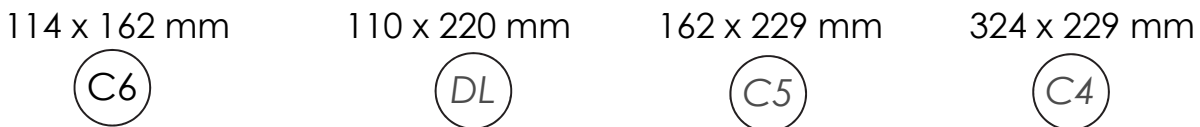
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Chocolate



We're celebrating Chocolate Week!

Use the statistics below to write statements about the production and consumption of chocolate around the world.

Main producers of chocolate in the world

Ivory Coast	Ghana	Indonesia	Nigeria
37%	22%	11%	6%

Brazil	Cameroon	Ecuador	Rest of the world
6%	5%	5%	8%

Top 10 consumers of chocolate in the world

(Average amount of chocolate consumed per person each year)

Switzerland	Germany	Republic of Ireland	United Kingdom	Norway
8.9 kg	7.8 kg	7.3 kg	7.3 kg	6.6 kg

Sweden	Australia	Netherlands	United States	France
5.3 kg	4.8 kg	4.7 kg	4.3 kg	4.2 kg