4GE newsletter – Autumn 2

Diary dates

PE days: Monday (outside - hockey) and Thursday (outside – tag rugby)

Year 4 assembly: Tuesday 19th November (9:10 – 9:30)

Maths

This term, we will focus on:

- Finding the area of shapes.
- Comparing the area of shapes.
- Multiples of 3.
- Multiplying and dividing by 6.
- Multiplying and dividing by 9.
- Multiplying and dividing by 7.
- Multiplying and dividing by 12.
- Multiplying by 1 and 0.
- Dividing a number by itself.
- Multiplying three numbers.

This term's times table focus is the 7 times table.

PSHE

During PSHE lessons this term, we will learn about:

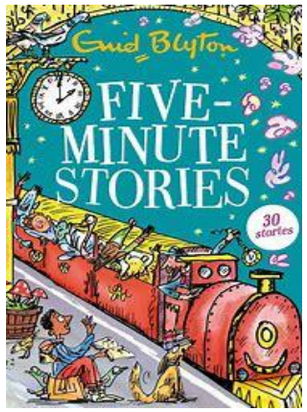
- Gender stereotypes
- Self-worth
- Managing strong feelings
- The importance of limiting screen time

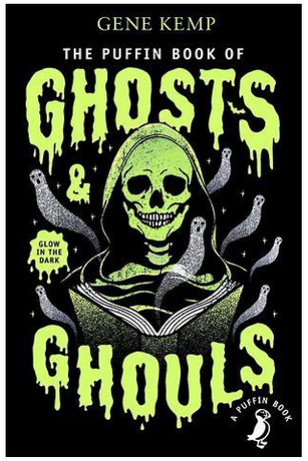
English

This term, we will create a series of setting focused short stories.

Our stories will include:

- A range of story openers (such as using thoughts, description, speech, shock and action)
- Using senses to describe
- Fronted adverbials
- Expanded noun phrases
- Prepositional phrases
- Adverbs
- Correctly punctuated speech
- Coordinating conjunctions
- Subordinating conjunctions
- Using apostrophes for possession and contractions





DT

We will be designing, making and evaluating our own electrical torches.

Geography

We will answer the following questions during our geography lessons:

1. What is climate?
2. Where is Antarctica?
3. Who lives in Antarctica?
4. Who was Shackleton?
5. Can we plan an expedition around school?

RE

We will answer these questions during RE this term:

1. Why is Mahatma Gandhi a Hindu Hero?
2. What is it like to be a Hindu in Britain today?

Science

States of matter

- What are solids, liquids and gasses?
- How do we measure temperature?
- Can states of matter change?
- What is the water cycle?

4GE Autumn 2 homework

Please complete one task per week and upload a photo or video to Dojo.

Writing task

Create your own short story (aim for your story to be no more than one page of writing). Your story needs a setting, a problem and a resolution. We will read your short stories in class!

Geography task

Create a fact file, poster or video to teach others about Antarctica. You could think about the following questions:

1. Where is Antarctica?
2. What would you see if you visited Antarctica? (Human/physical features).
3. Who discovered Antarctica?
4. How is Antarctica different to Ashton?

Maths task

Create a seven times table quiz for the class. Your quiz should contain 5 word problems.

DT task

Design a product that uses electricity. Be creative – you could design anything! Think about:

- What your product will look like.
- What it will do.
- How it will work.

Create a labelled diagram to show your design.

PSHE task

Create a poster or piece of writing to show others how to manage their 'big feelings'. Think about the strategies that people could use when feeling very unhappy, very stressed, very worried etc.

In addition to the above tasks, Year 4 children should also:

- Regularly use TTRS to develop times tables fluency.
- Read their school books regularly.
- Practise their weekly spellings. New spellings will be written into reading diaries every Thursday and tested the following Wednesday.
- Complete weekly Century Tech homework. New tasks will be set every Thursday.

Multiplication and Division

Knowledge Organiser

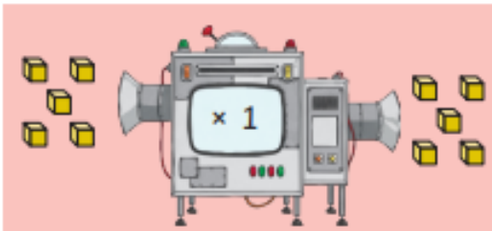
Key Vocabulary

- multiply
- groups of
- lots of
- times
- divide
- share
- remainder
- factor
- multiple
- product

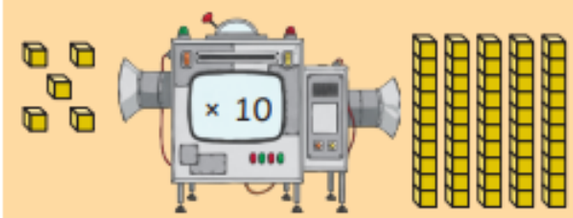
Multiplication and Division Facts

x	1	2	3	4	5	6	7	8	9	10	11	12
1	1	2	3	4	5	6	7	8	9	10	11	12
2	2	4	6	8	10	12	14	16	18	20	22	24
3	3	6	9	12	15	18	21	24	27	30	33	36
4	4	8	12	16	20	24	28	32	36	40	44	48
5	5	10	15	20	25	30	35	40	45	50	55	60
6	6	12	18	24	30	36	42	48	54	60	66	72
7	7	14	21	28	35	42	49	56	63	70	77	84
8	8	16	24	32	40	48	56	64	72	80	88	96
9	9	18	27	36	45	54	63	72	81	90	99	108
10	10	20	30	40	50	60	70	80	90	100	110	120
11	11	22	33	44	55	66	77	88	99	110	121	132
12	12	24	36	48	60	72	84	96	108	120	132	144

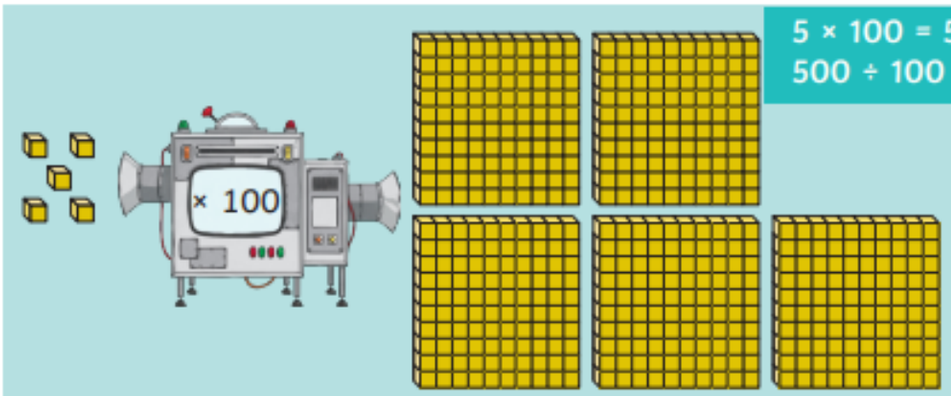
Use Place Value to Multiply and Divide Mentally



5 × 1 = 5
5 ÷ 1 = 5

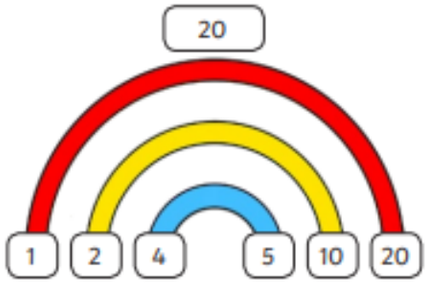


5 × 10 = 50
50 ÷ 10 = 5



5 × 100 = 500
500 ÷ 100 = 5

Factor pairs and Commutativity



The factors of 20 are 1, 2, 4, 5, 10 and 20.

The factor pairs are:

1 and 20 | 2 and 10 | 4 and 5

5 × 4 = 20

4 × 5 = 20

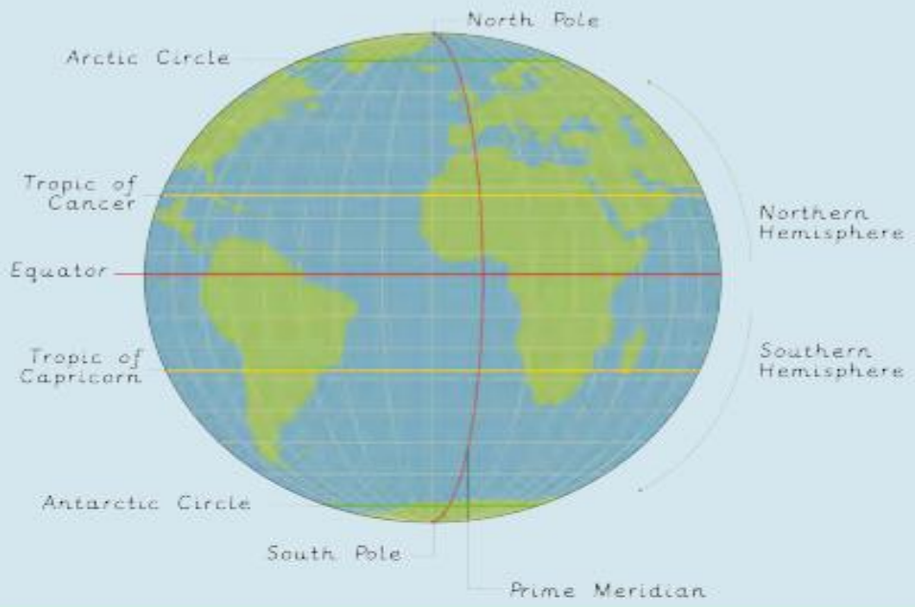
Multiply Using Formal Written Methods

Th	H	T	O	
	5	4	3	
×			4	
		1	2	(4 × 3)
	1	6	0	(4 × 40)
2	0	0	0	(4 × 500)
2	1	7	2	

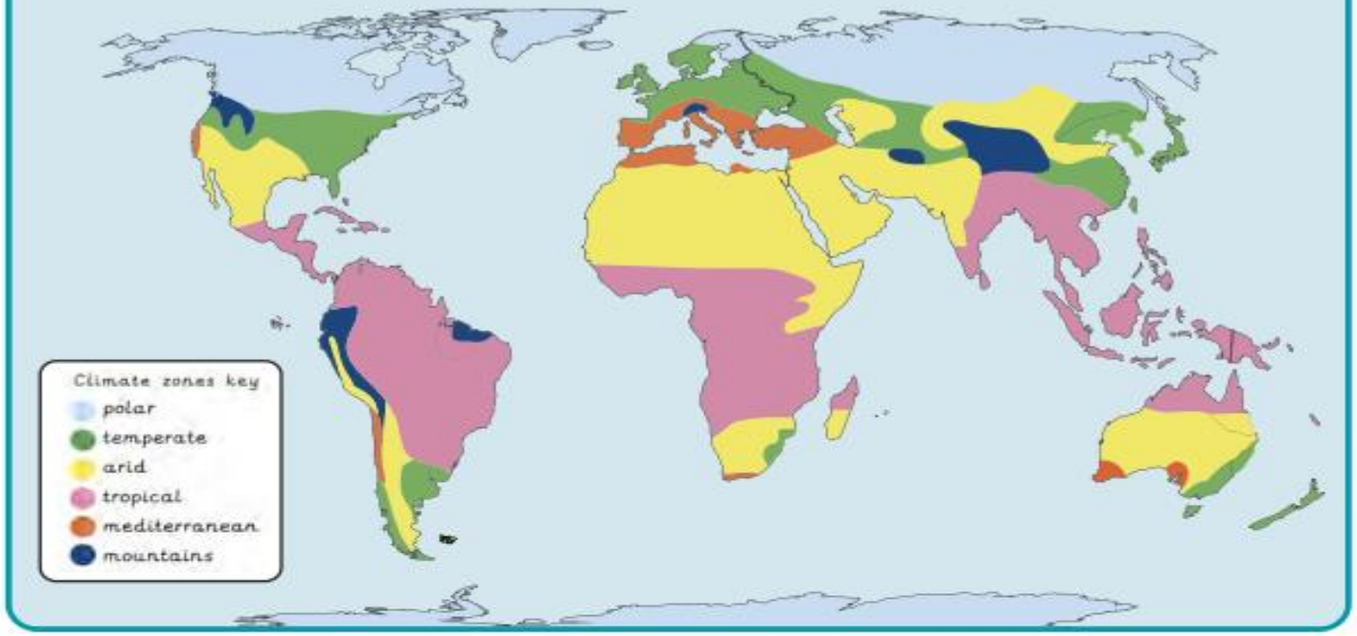
Th	H	T	O
	5	4	3
×			4
2	1	7	2
	1	1	

Remember to move any regrouped numbers into the next column. After the next multiplication, add the regrouped number to the answer.

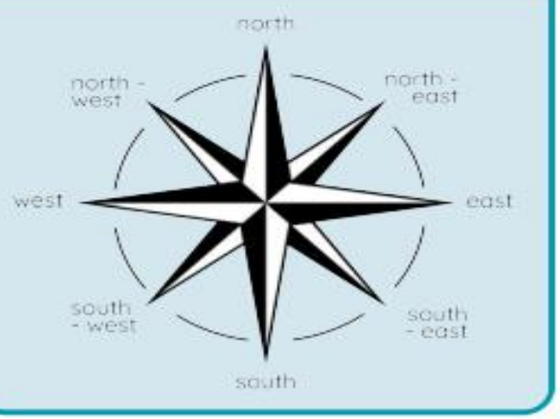
Lines of latitude and longitude



Climate zone map



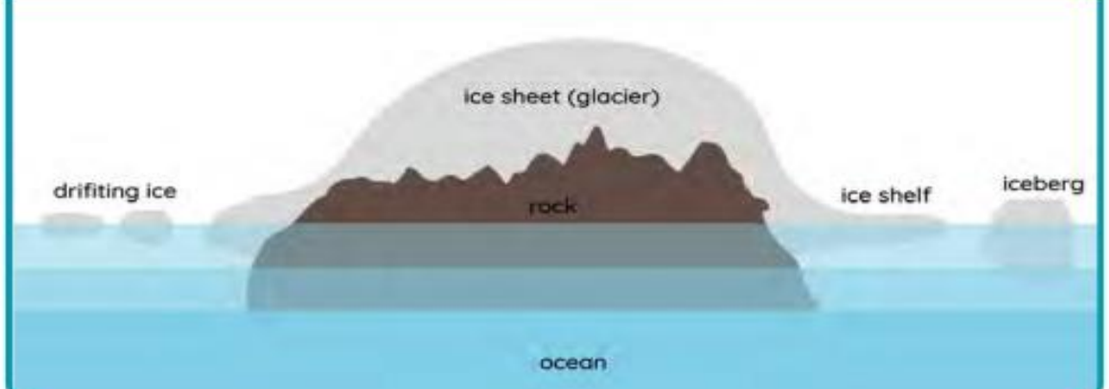
Compass points



Who lives in Antarctica?

Nobody permanently. However, tourists and researchers do visit.

Physical features of Antarctica



lines of latitude	Invisible horizontal lines mapped on our globe to show how far north or south a place is from the Equator.
lines of longitude	Invisible vertical lines mapped on our globe to show how far east or west a place is from the Prime Meridian.
hemisphere	One half of the Earth.
climate	The long-term weather conditions in a specific region.
climate zone	Areas of the world grouped together that have a similar climate.
compass points	North, east, south, west, north-east, south-east, south-west, north-west
direction	An imaginary line showing the way someone or something is moving.
treaty	A formal, written agreement between two places.
ice shelf	A thin layer of ice extending off a glacier into the sea.
ice sheet	A layer of ice covering the land for a long period of time, also known as a glacier.
drifting ice	Thin, floating pieces of ice not attached to a glacier.
iceberg	Large chunks of floating ice that break off a glacier.

D&T - Torches

battery	Made from two or more cells that provide electrical energy to power a circuit.
bulb	A part of a circuit made from glass or plastic that gives light when electricity passes through it.
conductor	A material that allows electricity to flow through it, such as metal.
design criteria	A set of instructions for the project.
electricity	A type of energy that is usually invisible and can be made or stored to make things work, such as moving or heating objects.
insulator	A material that does not let electricity flow through it, such as plastic.
series circuit	A closed circuit where the current flows in one path.
switch	A part of a circuit that can open or close to allow electricity to flow or stop it from flowing, such as a light switch that turns lights on or off.
test	To find out whether something works as it should.
torch	A battery-powered light that can be carried.
wire	A thin piece of copper that conducts electricity and connects circuit components together.

Many products use batteries.

In the past, there were no electrical items because they had not been invented yet.