

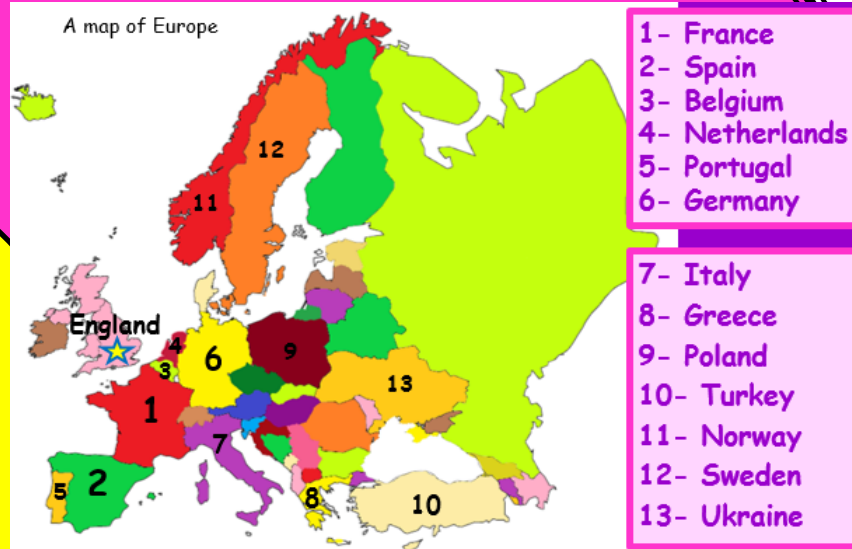
Year 4 Knowledge Map—Advent 2

Geography - European countries, capitals and topography

Science - Electricity

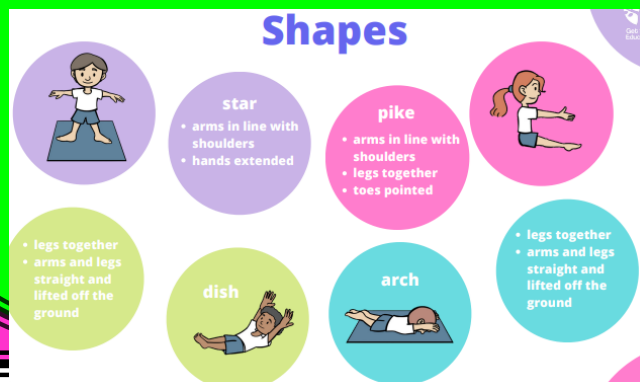
Geography

How many European countries can you remember without looking?



Key Vocabulary	Things we already know	New vocabulary
Physical geography	natural features of the land such as, mountains, beaches and rivers.	
Human geography	Features that have been man made such as, cities, farms and harbours.	
Continent	A continent is a massive area of land that is separated by water or other natural features.	
Capital Cities	Are usually the largest cities in their regions.	
Terrains	Land or ground or the natural characteristics of the Earth's surface	
Region	A larger area of land that is different from other areas with its own customs, characteristics of geographical feature	
Climate	Climate is the unusual or average weather conditions over a long period of time.	
Climate zones	The weather changes in different parts of the world. The world has different climate zones.	
Population	The number of people living in a country, city or area.	
Settlement	Places people lives such as, cities, towns and villages.	

PE: This term, Year 4 will be learning about Gymnastics and Netball (invasion games). We will develop skills of balance and movement as well as our skills in defending and teamwork. Please bring a warm P.E. kit into school.



Science



socket	Sockets allow electrical equipment to be connected to the alternating current (AC) power supply in buildings and at other sites.
appliance	An electrical appliance is a device that uses electricity to perform a function.
appliance series circuit	Components connected in series are connected along a single path, so the same current flows through all of the components.
insulator	An insulator is a material whose internal electric charges do not flow freely.

How many electrical appliances can you find in your home?

What would life be like if we did not have electricity?

circuit	An electrical circuit is a completed path through which an electrical current flows.
buzzers	A buzzer is an automatic signalling device. They are used as alarms and door bells.
conductor	A conductor is an object or type of material that allows the flow of an electrical current in one or more directions
battery	A battery is a device that stores chemical energy and makes it available in an electrical form.
cells	An electrical cell is a device that is used to generate electricity.
switch	A switch is an electrical component that can 'make' or 'break' an electrical circuit.

In what ways can electricity be made?

Sticky Knowledge about electricity

- ❑ Electricity can be generated by from power stations, wind, the sun, water and even animal poo!
- ❑ Electricity is a type of energy that can build up in one place to flow to another.
- ❑ A power station is a place where electricity is created and sent to our homes.
- ❑ Electricity travels at the speed of light, which is more than 186,000 miles per hour.
- ❑ One flash of lightning could power 1000 houses for a whole year.
- ❑ When an electric charge builds up on the surface of an object it makes static electricity. This is why we sometimes have a small electric shock.
- ❑ The first power plant opened in 1882 and was opened by Thomas Edison.
- ❑ Thomas Edison was a very famous inventor who helped us make the most of electricity from bulbs to fuses.

Maths

True or false

1200 ml = 1.2 L

340 ml = 3.4 L

50 ml = 0.5 L

Factor pairs and Commutativity

20

$5 \times 4 = 20$

$4 \times 5 = 20$

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

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

In 1 hour, there are 60 minutes.

We can use this knowledge to convert hours to minutes.

In 1 and a half hours, there are 90 minutes. This is because there are 60 minutes in an hour and 30 minutes in a half hour. $60 + 30 = 90$ minutes.

Complete the following sequences:

• 30,, 90,, 180,, 300

•, 40,, 80, 100,, 140,, 200, 220,

• 120, 105,, 75, 60,

Remember to practice your multiplication and division facts regularly so you know them for your Maths lessons and Times Table assessment at the end of the year. Scan the QR code to get onto TTRS.



Key Vocabulary

multiply

groups of

lots of

times

divide

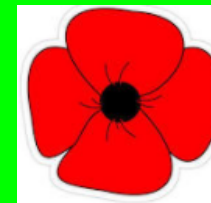
share

remainder

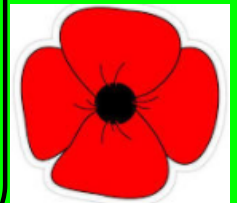
factor

multiple

product



Remember
this prayer



Eternal rest grant unto them, O Lord, and let perpetual light shine upon them. May the souls of the faithful departed, through the mercy of God, rest in peace. Amen.



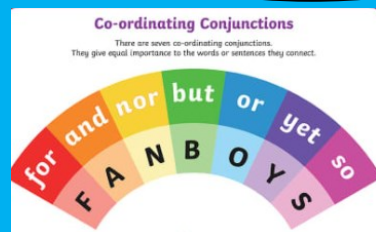
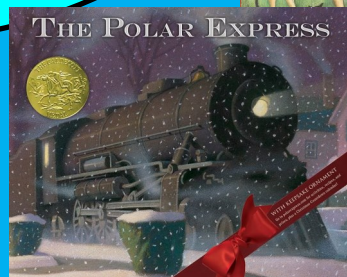
English

There are three types of sentence - **simple**, **compound** and **complex**.

- Using complex sentences can make it easier to add layers of information and detail when writing.
- Complex sentences have at least one subordinate clause that adds more detail and information to the sentence.



Scan the code to find out more about simple, compound and complex sentences. Use the quiz to test your understanding.



Developing a complex sentence

- **Simple** - 'George was feeling excited. It was dark in the forest.'
- **Compound** - 'George was feeling excited and it was dark in the forest.'
- **Complex** - 'George was feeling excited, despite the darkness of the forest.'

R.E. Unit: Gift

Key vocabulary: Gift, friendship, loyalty, commitment, rejoice, peace, God's plan .
We are all a gift from God. What qualities do you hope for in a strong, healthy friendship?

DT Money Containers

We will be creating money containers, bags or any other types of containers such as a pencil cases. We will look at different types of fastenings, stitches and materials used to create these. We will then design and create our own. Scan the code to find out more information about money containers.



SCAN ME

Computing Systems and Networks—The Internet

The World Wide Web is part of the internet . The internet is a network of networks that needs to be kept secure. We will be exploring the Internet.