

# Year 6 Knowledge Map – Advent 1

## Maths

Keep practicing using these mental strategies

### Base Facts

$$70 \times 80 = 5600$$

$$(7 \times 8 = 56)$$

### Doubling and Halving

$$18 \times 3 = 54$$

$$(9 \times 6 = 54)$$

### Place Value

$$0.008 + 1.23 = 1.238$$

$$9,000,341 - 1000 = 8,999,341$$

$$4.123 \div 100 = 0.04123$$

### One/Zero Effect

$$320 \times 0 = 0$$

$$475 \div 1 = 475$$



Keep practicing your times tables. Why not try playing hit the button? How fast can you complete the times tables? Scan the QR code to play.

### Regrouping

$$14 - 7.01 =$$

$$14 - 7 = 7$$

$$7 - 0.1 = 6.9$$

### Equal Sum for Addition

$$1999 + 457 =$$

$$2000 + 456 = 2456$$

### Equal Difference for Subtraction

$$1943 - 988 =$$

$$1945 - 1000 = 945$$

H	T	O	Tth	HTh	Thth
		5	4	2	

$$5.42 \times 10 = 54.2$$

We move the numbers one place to the left.

$$5.42 \div 100 = 0.0542$$

We move the numbers TWO places to the right.

## PSHE

What do you aspire to be in life?  
What is your dream job?  
Having a growth mindset will help you to achieve your dreams!



Have big dreams.  
You will grow into them.

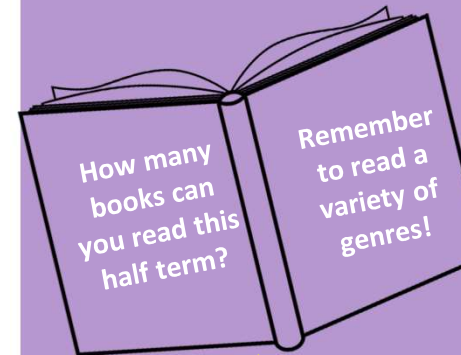
## RE

God's love is unconditional and eternal. It is in the love of a family that Christians first experience the reality of Church. Everyone begins life in a home and family or community of some kind.

Do you have to earn love?

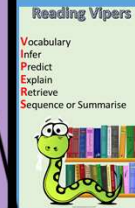


## English



Use these games to practice your spellings.

Our class novel is ...



Can you find out what inspired the author to write 'Wonder'? Do you know any books similar to Wonder? Recommend them to your friends!

To make your writing interesting, use a range of simple, compound and complex sentences.

*Jerry goes for a jog in the morning.*

This is a simple sentence, it is made up of one clause.

*Jerry went out for a jog and Louise went shopping.*

This is a compound sentence as it contains two independent clauses joined by a coordinating conjunction.

*Although he was tired, Jerry went out for his morning jog.*

This is a complex sentence as it contains a main clause and a subordinate clause.



"Dear Lord, use my eyes to see new friends.

Open my ears to hear my teacher.

Open my mind to learn new things.

Let my heart remember YOU are near when I'm afraid.

Help me to love others like you do.

I want to shine your light so bright in my school."

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Learn these spellings and try to include them in your written work

appear	believe	certain
different	enough	favourite
group	heard	interest
material	occasionally	particular
separate	although	thought

# Year 6 Knowledge Map – Advent 1

## Science

### Evolution and Inheritance

Animals and plants produce offspring that are similar but not identical to them.

In the same way that there is variation between parents and their offspring, you can see variation within any species, even plants.

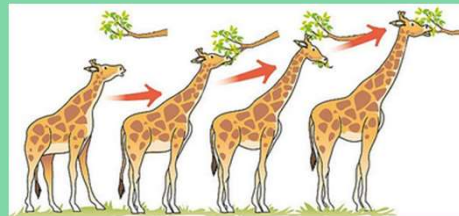
Adaptive traits are characteristics that are influenced by the environment the living thing lives in.

Inherited traits are inherited from the biological parents and include things like eye colour, hair colour and the shape of your earlobes.

Living Things	Habitat	Adaptive Traits
polar bear	arctic	Its white fur enables it to camouflage in the snow.
camel	desert	It has wide feet to make it easier to walk in the sand.
cactus	desert	It stores water in its stem.
toucan	rainforest	Its narrow tongue allows it to eat small fruit and insects.

### Key Vocabulary

Offspring	The young animal or plant that is produced by the reproduction of that species.
Inheritance	This is when characteristics are passed on to offspring from their parents.
Variations	The differences between individuals within a species.
Characteristics	The distinguishing features or qualities that are specific to a species.
Adaptation	An adaptation is a trait (or characteristic) changing to increase a living thing's chances of surviving and reproducing.
Evolution	Adaptation over a very long time.



## History



### Freedom

Between the 16th and 19<sup>th</sup> centuries, European merchants transported an estimated 12.5 million Africans across the Atlantic to work in slavery in the Americas. This was known as the Transatlantic Slave Trade.

1562: Sir John Hawkins was given permission by Elizabeth I to begin transporting captured African slaves to America. There they were sold. He is called the "father of the slave trade".

1789: Olaudah Equiano published autobiography.

1807: The Slave Trade was abolished in England.

1833 : Slavery was abolished in the British Empire.

1960s: Black Americans still do not have equality with white Americans. Martin Luther King campaigned to change this.

2009: Barack Obama was elected as the first African American to be elected President of America

2012: Malala Yousafzai was shot on a bus on her way home after taking an exam.

### Key Vocabulary

Enslaved person	Someone who has been made a slave. A person who is owned by another person and forced to work without pay.
Abolish/Abolition	To stop something happening by making it illegal.
The Transatlantic Slave Trade (Trade Triangle)	A three stage voyage. Britain to West Africa, West Africa to the West Indies, West Indies to Britain.
The Middle Passage	The second voyage of the Transatlantic slave trade where enslaved Africans were taken to the West Indies and Americas to be sold.

## Art

### Maria Sibylla Merian

Maria Sibylla Merian (April 2, 1647 – January 13, 1717) was a naturalist and scientific illustrator who studied plants and insects and painted them in great detail. Her careful observations and documentation of the metamorphosis of the At first, Merian was a botanic artist - someone who drew realistic and detailed pictures of plants. Afterward she studied insects, keeping her own live specimens. She made detailed, scientific drawings showing insect metamorphosis, in which all life stages of the insect were shown in the same drawing.



## PE

On Tuesdays and Fridays, come to school dressed in your PE kit. Your white SMOS PE top, green shorts or black jogging bottoms and trainers.