

KNOWLEDGE ORGANISER Year 6



At St. Augustine's Catholic Primary School, we are passionate about children's learning. The Cognitive

learning.

Curriculum Intent Statement -

remembering and recalling and this theory is embedded this within our curriculum.

'Learning is Remembering and Recalling...'

Load research theory and Rosenshine's Principles of Instruction highlights that children learn through

Our curriculum is planned and sequenced around the specific vision of the National Curriculum, our Curriculum Drivers, the Laudato Si and the Gospel Values. This is based upon our School Catholic Mission that we have a moral purpose for our pupils to flourish in a safe, happy and stimulating environment, and leave us with the knowledge and skills, personal qualities and aspirations, to make the world a better place, inspired by the Gospel. We believe that this core belief underpins everything we do here at St. Augustine's.

St. Augustine's curriculum will provide inspiring and relevant learning opportunities for our children to develop the knowledge and skills that can be fluently applied across all subject areas. It will ensure that all children's individual needs and experiences are developed through local, national and global contexts.

children's individual needs and experiences are developed through local, national and global contexts.

In order for children to relate to their learning, topic areas will be carefully planned and supported through external visitors talking about their experiences, or class trips to supplement the children's

Curriculum Development - Intent

Laudato Si, National Curriculum and Gospel Values

















Using our Secrets to Success...



















Rosenshine's Principles of Instruction

English

Reading
Writing
Phonics
Spelling
Punctuation
Grammar

Maths

Arithmetic Fluency Reasoning Problem Solving

RE

Knowledge & Understanding Engagement & Response Analysis & Evaluation

Parents in Partnership and Knowledge Organisers

The Culture Team

History Geography French (MFL)

The Arts and Technology Team Design

Design
Technology Art
Music
Computing

The Healthy Hearts and Minds Team PE Science

PSHE / RSHE

Our Laudato Si key question this half term...

What can we learn from Ancient Greek Civilizations to support the world today?



Our Focus Gospel Value this half term is...

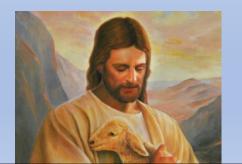


How do you show courage in what you do?

School Mission Statement

Lead us Lord,
To act justly,
To love tenderly,
And to walk humbly.





Amen

Science/Topic – Evolution and Inheritance

Key Vocabulary

offspring	The young animal or plant that i 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.				
habitat	Refers to a specific area or place in which particular animals and plants can live.				
environment	An environment contains many habitats and includes areas where there are both living and non- living things.				

Year 6 Skills:

- Recognise that living things have changed over time and that fossils provide information about living things that inhabited the Earth millions of years ago
- Recognise that living things produce offspring of the same kind, but normally offspring vary and are not identical to their parents
- Identify how animals and plants are adapted to suit their environment in different ways and that adaptation may lead to evolution.



Offspring
Animals and plants produce offspring that are similar but not identical to them.
Offspring often look like their parents because features are passed on.

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



Adaptive Traits
Characteristics that
are influenced by
the environment the
living things live in.
These adaptations
can develop as a result
of many things, such
as food and climate.



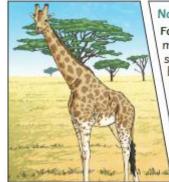


Inherited Traits

Eye colour is an example of an inherited trait, but so are things like hair colour, the shape of your earlobes and whether or not you can smell

certain flowers.

evolution	Adaptation over a very long time. The process where organisms that are better adapted to their environment tend to survive and produce more offspring.			
natural selection				
fossil	The remains or imprint of a prehistoric plant or animal, embedded in rock and preserved.			
adaptive traits	Genetic features that help a living thing to survive.			
inherited traits	These are traits you get from your parents. Within a family, you will often see similar traits, e.g. curly hair.			



Natural Selection Fossils of giraffes from millions of years ago show that they used to have shorter necks. They have gradually evolved through natural selection to have longer necks so that they can reach the top leaves on taller trees.

Environments There are many tupes of environment around the world Polar regions. deserts, rainforests, oceans, rivers, and grasslands are all environments.

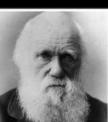


Habitats A good habitat should provide shelter. water. enough space and plenty of food.

Important scientists

Charles Darwin

Charles Robert Darwin (12 February 1809 - 19 April 1882) was an English born evolutionary biologist, naturalist and geologist who was best known for his contributions to the science of evolution. He first formulated his theory in his book "On the



Origin of Species" in 1859. Mary Anning

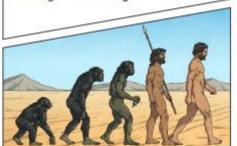
Mary Anning (21 May 1799 - 9 March 1847) was an English fossil collector, dealer, and palaeontologist who became known around the world for important finds she made in Jurassic marine fossil beds in the cliffs along the English Channel at Lyme Regis in the county of Dorset in Southwest England.



Fossils are the preserved remains, or partial remains, of ancient animals and plants. Fossils let scientists know how plants and animals used to look millions of years ago. This is proof that living things have evolved over time.



Evolution is the gradual process by which different kinds of living organism have developed from earlier forms over millions of years. Scientists have proof that living things are continuously evolving - even today!



TYPES OF GEOGRAPHY

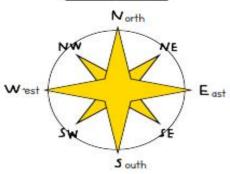
HUMAN GEOGRAPHY The impact of people on the earth PHYSICAL GEOGRAPHY The natural world without people ENVIRONMENTAL GEOGRAPHY Human interaction with nature

WHAT IS GEOGRAPHY

"Geography is the study of the Earth's landscapes, peoples, places and environments. It is, quite simply, the study of the world we live in*

Geography is part of your everyday life; you use it every day without even realizingle

COMPASS POINTS



WHERE IS THE UK?



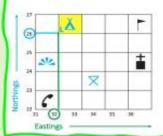
The United Kingdom (UK) is an Island country located in the continent of Europe, it is made up of four countries England, Scotland, Northern Ireland and Wales

THE UK

4 FIGURE GRID REFERENCES

Along the edges of each map there are numbers. These numbers help you work out where a location is on a map. Northings are numbers that go from bottom to top, Eastings go

from left to right.



The first two numbers give the eastings

The second two numbers give the northings.

Remember_eastings then northingsl

Along the corridor and up the stairs!

MAP SYMBOLS

Symbols are useful for lots of reasons including, space saving on a map, multi-lingual (all languages can understand them), saves time, clear.

M1 or A6(M) MOTORWAY



FOOTPATH





















English - KEY VOCABULARY

Grammar Key Vocabulary – Sentence Level

Progressive tenses – showing a continuous action e.g. is clapping, was jumping (formed by adding –ing to the verb).

Present perfect tense – used for actions that started in the past and continue into the present e.g. I have lived in Weymouth for 10 years (formed using has/have + past tense verb).

Adverbial phrases – describe how, when, where or why the verb happens e.g. in the garden, before school, at the park (adverbials at the start of a sentence must be followed by a comma).

Subject – the noun that is doing the verb e.g. *The* <u>dog</u> <u>chased</u> the ball. **Object** – the noun that is having the verb done to it e.g. *The* <u>dog</u> <u>chased</u> the ball.

Active voice – the subject comes before the verb in a sentence e.g. *The* <u>dog</u> chased the ball.

Passive voice – the object comes before the verb in a sentence e.g. *The* <u>ball</u> was chased by the dog.

Grammar Key Vocabulary – Word Level

Preposition – describes when or where something is in relation to something else (after, before, under, inside).

Determiner – introduces a noun:

- Articles (a, an, the)
- Demonstratives (this, that, these, those)
- Quantifiers (one, two, some, many, multiple)
- Possessive (his, her, their)

Subordinating conjunction – a word that connects an independent clause to a dependent clause (because, although, however).

Co-ordinating conjunction – a word that joins two elements of equal importance (FANBOYS – for, and, nor, but, or, yet, so).

Synonyms – a word that means the same as another e.g. old and ancient.

Antonyms - a word that means the opposition - e.g. old and young.

Punctuation Key Vocabulary

Ellipsis ... omission of a word or phrase used to create tension or suspense.

Parenthesis (),,-- additional information or an aside within a sentence. Punctuated with brackets (for short or formal information), dashes – for informal chatty – and commas for clauses.

Semi colon; used to join independent clauses (clauses that make sense on their own) in the place of a conjunction.

Colon: used to introduce a list or to join two independent clauses when the second clause relates to the first.

Hyphens to avoid ambiguity used to avoid confusion between words which would otherwise have the same spelling but a different meaning.

English

WRITING - Recount Diaries & Myths and Legends

AMPS descriptive techniques to describe setting, atmosphere and characters: Alliteration – Most of the initial letter sounds of the words in each line are the same.

Metaphor – Saying an object is something. **Personification** – A human quality is given to an object.

Simile - Comparison is used by using 'as a' or 'like a'.

Plot – developing problems and solutions within a story.

Dialogue – using the speech of characters to advance action in a story.

READING Key vocabulary

Word meaning - Explaining the meaning of words in context and explaining how word choice enhances meaning.

Retrieval - Finding details and information from a text.

Prediction - Saying what will happen next or as a result of something.

Comprehension – understanding the text and how content is related to the meaning as a whole.

Inference - reaching a conclusion which you can explain and justify with evidence from the text.

Deduction - Using evidence in a text to support an idea.

Summary – summarising main ideas from across paragraphs.

- Words ending ough

SPELLING

- Words ending ant, ance, ancy - Words ending ent, ence, ency

- 'ie' sound '**ei**' after c

Homophones – words that sound the same but mean different

HOW TO HELP – Writing - Discuss descriptive techniques when reading.

- Discuss how authors develop the plot in their stories.

- Look at dialogue and how it moves a story on. - Encourage your child to write as much as possible for as many different purposes as you can.

HOW TO HELP - Grammar

- Spot grammar being taught at school when reading.

- Work together on your child's IXL homework.

HOW TO HELP - Reading

- Visit local libraries

- Speak in grammatically accurate sentences.

- Read with your child (lots)

- Discuss vocabulary and develop understanding of new words

- Read comics/magazines/newspapers

- Let your child see you read - Make reading enjoyable- not a battle

- Let children read what interests them

Don't forget the Vocabulary Challenge!

Spelling Y5 & 6 Curriculum words

accommodate	conscience	existence	muscle	rhythm	
accompany	conscious	explanation	necessary	sacrifice	Help your
according	controversy	familiar	neighbour	secretary	child to
achieve	convenience	foreign	nuisance	shoulder	2111101 22
aggressive	correspond	forty	оссиру	signature	practice
amateur	criticise	frequently	оссиг	sincere	spelling and
ancient	curiosity	government	opportunity	sincerely	using these
apparent	definite	guarantee	parliament	soldier	J
appreciate	desperate	harass	persuade	stomach	words.
attached	determined	hindrance	physical	sufficient	
available	develop	identity	prejudice	suggest	Look for
average	dictionary	immediate	privilege	symbol	them in
awkward	disastrous	immediately	profession	system	
bargain	embarrass	individual	programme	temperature	books.
bruise	environment	interfere	pronunciation	thorough	
category	equip	interrupt	queue	twelfth	Can they
cemetery	equipped	language	recognise	variety	write them
committee	equipment	leisure	recommend	vegetable	
communicate	especially	lightning	relevant	vehicle	in their
community	exaggerate	marvellous	restaurant	yacht	homework?
competition	excellent	mischievous	rhyme		

Maths – KEY VOCABULARY

Number and the 4 Operations

Divisor – the number you are dividing by **Quotient** – the answer to a division calculation

Product – the answer to a multiplication question

Factors – numbers that go into a given number (come in pairs) e.g. factors of 12 are:

1 and 12 2 and 6 3 and 4

Multiples – in the times table of - e.g. multiples of 12 are 12, 24, 36 etc.

Lowest Common Multiple – the lowest multiple of 2 or more numbers that are the same. **Highest Common Factor** – the largest factor that is a factor of two or more other numbers

Integer – a whole number

Prime numbers – numbers that only have 2 factors, 1 and itself

Decimal – part of a whole where 1 is the whole

Percent – part of a whole where 100% represents the whole

Fractions

Equivalence – fractions that have the same value/are the same size

Numerator – the top number of a fraction (how many parts selected from the whole)

denominator (e.g. $50/100 = \frac{1}{2}$)

to allow you to add or subtract them

Lowest common denominator – the lowest common multiple of two or more fractions'

denominators used to add and subtract fractions Mixed number – a whole (integer) and a fraction e.g. 1 ½

Denominator – the bottom number of a fraction (how many parts the whole is split into)

Simplify – giving a fraction in the simplest form using the smallest possible numerator and Common denominator – finding the lowest common multiple of two or more denominators

HOW TO HELP Mental arithmetic games – e.g.

Countdown.

Regularly revisit times tables facts up to 12 x 12.

Use maths in daily life – cooking,

measures, shopping etc.

Be positive about maths at home!

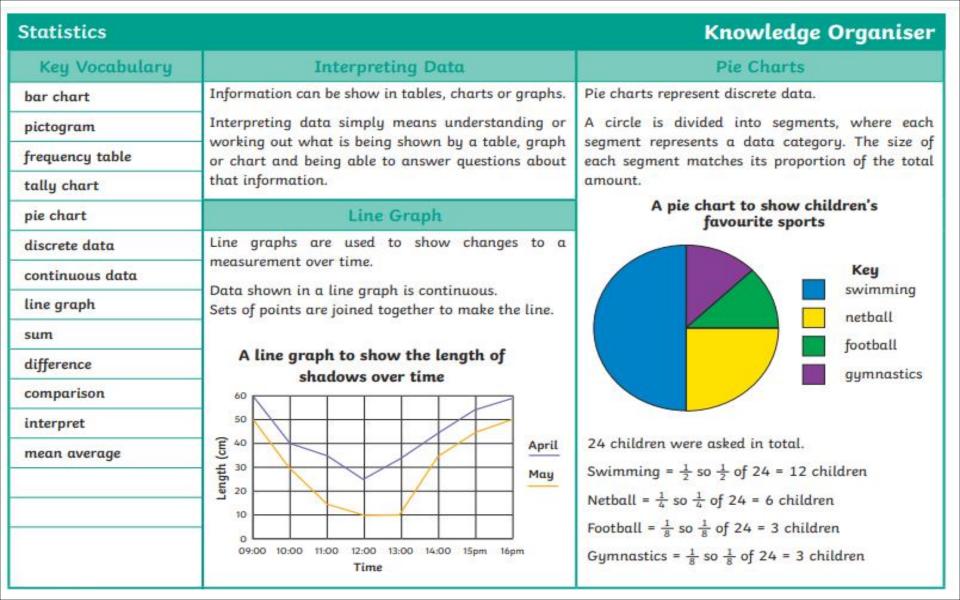
Embrace struggle! Teach your child that

it's good to get stuck! This is how we learn best. Allow time for resilience building.

Fluency, Reasoning and Problem Solving Key Vocabulary -

Fluency - Using number and calculation skills accurately and efficiently **Reasoning -** Following a line of enquiry, justifying and proving their answers

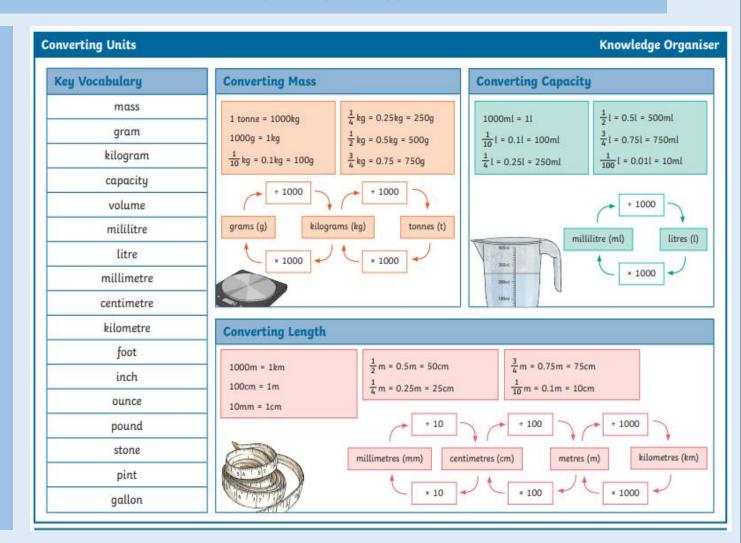
Problem Solving - Solving real life and logical problems using mathematical understanding



Maths – Measures

We are learning to: Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate.

- -Use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to 3 dp.
- Convert between miles and kilometres



Religious Education

Witnesses - Pentecost



How can we be a witness for Christ?

Each of us, by the way we live our lives, the way we treat others, and by our words and actions, show if we have an attitude of service.

Often, we are especially influenced by those whose actions speak powerfully of a life of service.

Christians believe that the Spirit of God is active in each person and, in a special way, in the community of believers, which is the Church. It is the work of the Spirit to enable people to hear God's message and to live Jesus' way of service.

"The Spirit of the Lord is upon me, because he has anointed me to bring Good News to the poor. He has sent me to proclaim release to the captives and recovery of sight to the blind, to let the oppressed go free, to proclaim the year of the Lord's favour."

Luke 4: 18-19

In what ways is serving emphasised in the classroom and throughout the school? How can you help children to appreciate their energy and use it for the good of others? In what ways may a school community draw on the power of the Holy Spirit?

Computing



We are network technicians

Exploring computer networks including the internet

In this unit, the pupils use unplugged activities to

develop their understanding of networks; they learn

about the domain name system and explore the school's network infrastructure.

CURRICULUM LINKS

Understand computer networks including the internet; how they can provide multiple services, such as the world wide web; and the opportunities they offer for communication and collaboration.

Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.



Art/DT

Art: Artist study

Architecture-

A term to describe buildings and other physical structures

Cityscape-

This is an artists representation of the physical aspects of a city or urban area. This can be a painting, drawing, print or photograph.





Perspective-

Using one, two and three point perspective drawing methods will help to create buildings and cityscapes with scale, depth and detail.







One point

Two point

Three point

Artist link- Stephen Wiltshire

He is a British architectural artist who draws detailed cityscapes. He draws lifelike urban scenes from memory.



His technique- Pen and ink to create detailed mark- making.

Mark- making is using different effects like lines, dots, marks and textures

Mixed media-

Using a variety of different art mediums and techniques to create a single piece of art

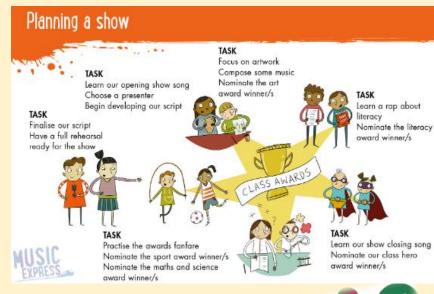
Artist Ian Murphy creates mixed media textural drawings of buildings and details







Music





RSE

Making Babies
Menstruation
Is God Calling You?
Under Pressure
Self-Talk
Sharing Isn't Always Caring
Cyberbullying
Types of Abuse
Impacted lifestyles
Making Good Choices



French

Les Habitats

Throughout this unit we introduce the children to a variety of habitats and look at which plants and animals live and grow there. The children will always have as much visual support as possible in every lesson so that the clues for decoding are accessible to them. We teach them how to decode and access language.

PE

Rounders & Athletics

Year 6 Skills:

- Choose, combine and perform skills more fluently and effectively in invasion, striking and net games.
- Understand, choose and apply a range of tactics and strategies for defence and attack use these tactics and strategies more consistently in similar games.
- Understand the need to prepare properly for games
- Develop the consistency of their actions in a number of events
- Increase the number of techniques they use
- Choose appropriate techniques for specific events
- Understand the basic principles of warming up

Foundation Subject IMPACT QUESTIONS

Geography
Geography
How can I use grid
How can I use identify a
references to identify a
references to map?
location on a map?



PE
HOW CAN I
SEQUENCE A
MOVEMENT
PATTERNS?

Science
How did Darwin's discoveries
change the wat people thought
about the world?

Music How can I represent my emotions through music and performance?

Computing How are networks organized and built?

PSHE

How can I learn to build resilience as I experience peer pressure?

Art/DT
How can I use another artist as inspiration for my own work?