



Year 5: Knowledge Organiser: Spring Term

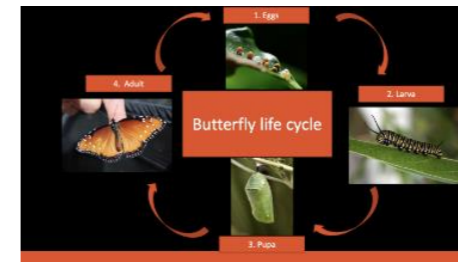


Key book this term:

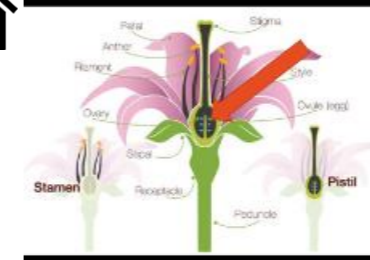
Try at home and add to Seesaw



Can you draw a life-cycle of a butterfly?



How does the life cycle of a plant happen?



Forces

Do you know who Sir Isaac Newton was?



Science: Living things and their habitats

Key Skills/knowledge:

- Describe the difference in life cycles of a mammal, an amphibian, an insect and a bird
- Describe the life process of reproduction in some plants and animal

Key Vocabulary: reproduction, sexual reproduction, sperm, egg, live young, metamorphosis, gestation, runners, bulbs, cuttings, plantlets

Science: Forces

Key Skills/knowledge:

- Explain that unsupported objects fall towards the Earth because of the force of gravity acting between the Earth and the falling object.
- Identify the effects of air resistance, water resistance and friction, which act between moving surfaces.
- Recognise that some mechanisms, including levers, pulleys and gears, allow a smaller force to have a greater effect.

Key Vocabulary: weight, mass, air resistance, water resistance, streamlined, aerodynamic, drag, gravity, push, pull, friction, up thrust



Can you find what these vocabulary words mean?



PSHE/RSE:

Jigsaw: Dreams and Goals

When I grow up, investigate jobs and careers, my dream job, dreams and goals of people from other cultures, how we can support each other and rallying support.

Jigsaw: Healthy Me

Smoking, alcohol, emergency aid, body image, my relationship with food, healthy me

Guided Reading: Hacker

Key Skills/knowledge:

- Retrieve – summarising, recording and presenting information
- Interpret – questioning, inferences, predicting and comparisons
- Choice – language and structure and reading for range and purposes
- Perform – performing poems and playscripts to read aloud
- Viewpoint – Identify themes and justify views.
- Review – Discussing books, recommending books and giving reasons for choices.

Key Vocabulary: retort, amateur, subdued, distributed, broadened, facetious, stonily, destined, cajoled, ingenuity.

Cross-curricular links

PSHE – learning about citizenship, families, racism, ICT.

History: The Vikings – Would the Vikings do anything for money?

Key Skills/knowledge:

- Develop secure knowledge and understanding of British history
- Use appropriate historical terms
- Understand historical knowledge in based on a number of sources
- Construct informed responses using historical information
- Note connections and contrast over time
- Address and devise historical questions

Locations: Scandinavia, (Norway, Denmark and Sweden) UK, Lindisfarne, Greenland, Iceland

Key Vocabulary: Raider, raider, monk, monastery, sacked, looted, abbey, overpopulation, invader, push and pull factors, monarch, cult, rune, saga.

Cross-curricular links

English – write a saga

Geography – map work, settlements physical geography.

R.E. Exploring different beliefs and burial practices

Science: Why materials were selected for certain jobs

D.T. Design and make a Viking Long Ship

French

La nourriture

Asking politely for food items
Describing how to make a sandwich
Expressing opinions about food
Talking about healthy and unhealthy foods.

History – To learn about the Vikings and whether they really would do anything for money and to write a Viking Saga.

Geography – To consider what makes a good holiday destination and write a tourist guide for the Alps.



Why did the Viking use Long Ships?



Geography: Europe – A Study of the Alpine Region
Where should we go on holiday?

Key Skills/knowledge:

- Name and locate countries and cities in the UK
- Use maps and atlases to describe features and located countries
- Understand geographical similarities – human and physical
- Use four and six figure grid references
- Record and present information of physical features in a local area using a range of methods

Key Vocabulary: continents, settlements, human and physical features, rivers, mountains, longitude, latitude, Tropic of Cancer, Tropic of Capricorn, political and physical map

Locations: United Kingdom, Denmark, Netherlands, Germany, Poland, Belgium, Switzerland, Luxemburg, France, Italy, The Alps.

Cross-curricular links

History – traditional homes in the Alps
ICT: Write a tourist guide.

Physical Education Unit titles

- ✓ Invasion Games
- ✓ Dance
- ✓ Strike and Field Games
- ✓ Net and Wall Games

R.E. – visit to the Kirton Church to learn about the Eucharist

Religious Education:: Islam What does the Qur'an reveal to Muslims about Allah and his guidance?
Key Skills/knowledge:

- Know how Muslims show respect for the Qur'an.
- Retell the story of how the Qur'an was revealed to Mohammed
- Show how Muslims express the idea of revel and revelation

Key Vocabulary: Reveal, revelation, Qur'an, Muslim, Islam, Muhammed, Allah, Arabic, Cave Hira, Jibreel, Al Fatimah, mosque, surahs, madrassah, Hafiz

Religious Education: Christianity – What is the great significance of the Eucharist for Christians?
Key Skills/knowledge:
Be able to explain the last Passover feast that Jesus had with his disciples, known as the Lord's Supper.
Key Vocabulary: Passover, Exodus, Moses, parables, saviour, followers, Eucharist, sacrifice, forgiveness, Lord's Supper

Subordinating Conjunctions

Subordinating Conjunctions

Here are 10 of the most common subordinating conjunctions. They are used at the beginning of a subordinating clause which is a clause that doesn't make sense on its own.

if

since

as

when

although

while

after

before

until

because

I

S

A

W

A

B

U

After	Once	Until
Although	Provided that	When
As	Rather than	Whenever
Because	Since	Where
Before	So that	Whereas
Even if	Than	Wherever
Even though	That	Whether
If	Though	While
In order to	Unless	Why

Coordinating conjunctions
FANBOYS

English – Writing

Third person story writing – write a third person story set in another culture. Learn to develop the characters and setting and use dialogue (speech) to tell the story, using cultural references. Learn the use of modal verbs, modal adverbs, commas for clauses and the use of inverted commas (speech marks).

Writing a playscript – create scene 2 of a playscript. Lots of acting and drama required for this writing unit as the children learn to convey the characters in what they say and how they say it and demonstrate shifts in formality.

Mathematics

Fractions (to complete unit)

- Compare and order fractions
- Add and subtract fractions and mixed numbers
- Multiply fractions
- Calculate fractions of a quantity
- Find the whole
- Use fractions as operators

Multiplication and division

- Multiply up to a four digit and number by a one digit number
- Multiply 2, 3 and 4 digit numbers by a n2 digit number
- Solve problems using multiplication
- Divide a 4 digit number by a one digit number
- Divide with remainders
- Solve multiplication and division problems

Decimals and percentages

- Decimals up to 2 decimals places
- Equivalent fractions and decimals
- Thousandths as fractions and decimals
- Thousandths on a placed value chart
- Order and compare decimals
- Rounding decimals
- Understanding percentages
- Equivalent fractions, decimals and percentages

Coordinating conjunctions
FANBOYS

for

and

nor

but

or

yet

so

F

A

N

B


O

Y

S

Modal adverbs

definitely absolutely surely crucially
importantly certainly
totally really utterly clearly
obviously possibly probably
perhaps maybe



Mathematics

Perimeter and area

- Perimeter of rectangles
- Perimeter of rectilinear shapes and polygons
- Area of polygons, rectangles and compound shapes
- Estimate area

Statistics

- Draw line graphs
- Read and interpret line graphs
- Read and interpret tables
- Two-way tables
- Read and interpret tables

Music – Guitars
Key Skills/knowledge:

- Care and preparation including awareness of the need for tuning.
- Posture and instrument hold for good tone
- Play open strings, changing between strings
- Play fretted notes and simple related chords
- Play the correct open/fretted string for a named note/ chord
- Play a range of open string/chordal pieces from a range of notations.

Key Vocabulary: Frets, strum, pulse, rhythm, pitch, ostinato, treble clef, beats, crotchet, quaver, minim, semi breve, counts.

Art – Printmaking

Outcome: To produce a reduction block print using press print and reflect and evaluate on how to improve the work
Key Vocabulary: response, printmaker, press print, reduction printing, worrying away, incisions, inverted, edition, individual, annotated, record, combination, overlaid, linear.

Design Technology – Design and build a Viking Long Ship

Outcome: To research, design, plan and make a Viking Long Ship
Key Vocabulary: Long Ship, Viking, corex, doweling, materials, techniques, measurement, shape, cross-section, bird's eye view.

Learning Gems

Confidence

Commitment

Independence

Collective

Communication

Compassion

Empowerment

SPAG – using and understanding the terms

Expanded noun phrase – one of more adjectives and a noun to provide more information.

Figurative language – simile,(sharp **like** knives) metaphors (the sea **is** glass) and personification (the tree **reached** into the night sky) to help the reader picture the scene in their mind.

Coordinating conjunctions (FANBOYS)– to connect words or phrases together – and, so, for, nor, yer, but.

Subordinating conjunctions – to connect a main clause to a subordinate clause to make a complex sentence – although, because, unless, even though, whereas, etc.

The crocodile was walking along the river **whilst** savagely gnashing its teeth.

Relative clauses – a subordinate clause that begins with the relative pronouns who, whom, that, which, whose, whomever and whoever.

Steve Irwin, who was known to be fearless, was a well-known naturalist and television presenter.

Third person – use of third person pronouns such as he, she, they, them.

Modal verbs – verbs that indicate degrees of possibility – might, might not, could, could not, should, etc.

There **might** be a crocodile in the lake.

Modal adverbs – adverbs that indicate degrees of possibility – perhaps, surely, crucially, immediately, etc.

She considered for a moment that **perhaps** she was wrong.