Year 6 Science: Living things and their habitats

Subject S _l	pecific Vocabulary		Sticky Knowledge about Living things and their Habitats
amphibian	An animal with an internal skeleton that lives both in and out of water	Down it have a haddener? Sold Own it have hat? Been it have high?	☐ How many main groups of vertebrates are there?
bird	An animal that can often fly and has an internal skeleton	Pers II have beathers? Does II have a sequented body?	
Bacteria	Single-celled organisms, most of which can only be seen	Can it breaks on land? Con it bree uplay skin? Con it bree uplay skin?	☐ What is a species? ☐ What is the process called where
-1 15 -1	with a microscope	Ed amphilian molless molless	plants make their own food?
Classification	The grouping together of similar plant, animal or other organisms. To group similar	Working scientifically	☐ What must animals do for energy and nutrients?
invertebrate	species together. Animals without backbones.	 Describe how living things are classified into broad groups according to common observable characteristics and based on similarities and 	How many groups of invertebrates are there?
Invertebrate		differences, including micro-organisms, plants and animals.	☐ What are the 5 kingdoms of living
mammal	Have smooth, hairy, dry skin and most live on the land. They all breathe air.	 □ Give reasons for classifying plants and animals based on specific characteristics. □ Plan different types of enquiry to answer questions. 	things? ☐ Can you name a type of fungi?
micro-organism	Tiny life forms so small that a microscope is needed to seem them. Many types:	□ Recognise and control variables where necessary. □ Take measurements, using a range of	☐ Can you name a type of protists?
	bacteria viruses and some kinds of fungi.	equipment Choose the most appropriate equipment. Make decisions about what observations to	☐ Can you name a type of monera?
reptile	Cold blooded, most reptiles lay eggs and their skin is covered with hard, dry scales	make and what measurements to use. Record data and results with increasing complexity. Report and present findings from enquiries,	☐ What causes diseases?
vertebrate	Animals that have a backbone or spinal column.	including conclusions, causal relationships and explanation of results (in oral and written forms). Identify scientific evidence that has been used to support or refute ideas. Use simple models to describe scientific ideas.	☐ What is a microbe?





Progressive Language

En el colegio

Unit Objective:

To discuss what subjects you like and do not like at school and give a reason why in Spanish

By the end of this unit we will be able to:

- Name the subjects we study in school in Spanish with the correct definite article/determiner.
- Extend sentences by giving an opinion on the various school subjects and extend even further by giving a justification for that subject.
- Start to tell the time by learning how to say time by the hour.
- · Explore the irregular, high frequency verb 'ir' (to go) in full.

It will help if we already know:

- The letter sounds (phonics & phonemes) from 'Phonics & Pronunciation' lessons 1, 2 & 3.
- · Language introduced from Early Learning and Intermediate units.
- How to give our personal details from memory (name, age and where we live).

Skills we will develop:

To be able to provide positive and negative opinions and justifications to questions on school subjects and learn that these opinions and justifications are transferable language and can be used in other topics not just as responses to questions asked in the school topic. Learning how to extend our sentences, making them longer and more interesting.

Activities we will complete:

Learning 10 nouns and definite articles with listening, reading and spoken tasks. Written activities including category sorting, gap-fill, crosswords, wordsearches and word puzzles. Forming positive and negative opinions on school subjects, justifying opinions using a survey, 'guess who' reading pair work activity and role play. There will be a challenging listening task incorporating time and more challenging reading comprehensions and written tasks. Revisiting our knowledge on basic personal details.

Grammar we will learn & revisit:

Nouns, gender, definite articles & high frequency irregular verb ir. Revision of definite article el, la, los and las. Full verb conjugation of the verb IR, high frequency irregular verb. Learning how to also use opinions and justifications. Remembering that the subject pronoun 'yo' is often omitted in Spanish. Seeing that punctuation can be different with the upsidedown exclamation and question mark at the start of a sentence.

Phonics & pronunciation we will see:

Recommended phonics focus: B V CC QU Z

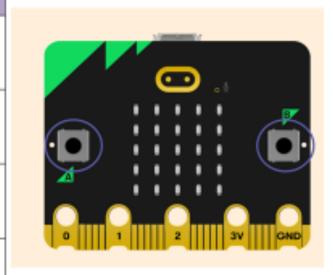
- . B sound in aburrido & QU sound in porque
- Stress Placement. Words that end in a consonant (apart from 'n' or 's' should be stressed on the last syllable. For words that end in a vowel or 'n' and 's' it is normally the second to last syllable like in-te-re-san-te and di-ver-ti-do.
- Accents. Accents can only be written over vowels in Spanish and indicate the vowel is stressed – regardless of the other rules! As seen in in-glés, fá-cil and ma-te-má-ti-cas.
- Ñ tilde. This changes the 'n' to a 'ny' sound like in the English word onion.
 It is another letter in Spanish not just another phoneme as in español.
- Silent letters. 'H' is always a silent letter in Spanish (unless the word is of foreign origin). Hola is pronounced ola.

Vocabulary we will learn & revisit:

Key vocabulary on 10 nouns and definite articles for school subjects. Two positive and two negative opinions in reply to the target question ¿Qué te gusta? and a variety of justifications to expand the opinion given in reply. All listed on Vocabulary Sheet.

Year 6 Computing: Programming B – Sensing

Subject Specific Vocabulary	
Small computers that perform different actions based on programs written on computer software.	
Programming blocks and a programming areas, the emulator gives a stimulation for testing code	
When we make and input a set of instructions for computers to follow	
Can be used to do things like display images, text and pictures on the LED display.	
Enables the user to create triggers using different parts of the microbit device	
Allow conditions to be set	
Includes numbers and sums in programs	
Set of rules	
Looking for and correcting errors	





Sticky Knowledge about programming

- □ Can I use key vocabulary correctly?
- ☐ Can you create a basic compass
- What happens to a variable's value after it has been checked by the program?
- ☐ Can you use the buttons to change the value of a variable using selection.
- □ Can you identify features of a counter step?
- □ Can you follow your plan to create your project?
- ☐ Can you debug your project?
- □ Can you enhance your project?

Year 6: Why was winning the Battle of Britain in 1940 so important?

Subject Specific Vocabulary		Emma Carroll	Sticky Knowledge about	
Air raid siren	Sounds the warning for an air raid.	IGHTHOUSE	World War Two	
Anderson Shelter	A shelter, half buried in the ground, with earth heaped on top to protect people from bomb blasts.	Key Skills	☐ How did World War 2 start?	
barrage balloon	A small captive balloon used to support wires or nets as protection against air attacks		How serious was the risk of invasion from Germany in 1940?	
evacuee	Someone who has been sent away from a dangerous place to somewhere safe, especially during a war.	☐ Evaluate a range of primary and	☐ How did Britain prepare to defend themselves during war?	
Evacuation of Dunkirk	The rescue of 338000 soldiers who were trapped on the beaches of Dunkirk in France	secondary sources explain why Britain faced the risk of an invasion in June 1940 and reach a judgment about how serious that threat was Interpret numerical and written evidence to explain justify why Hitler needed to defeat the British Royal Air Force before launching an invasion of Britain in 1940; Identify, describe, explain and evaluate the relative importance of the factors that contributed to Britain winning the Battle of Britain in 1940	defend themselves during war:	
Morrison shelter	A shelter made out of heavy steel and could be put in the living room and used as a table. One side lifted up for people to crawl underneath and get inside.		☐ Why did Hitler need to defeat the British Royal Air Force?	
RAF	UK's Royal Air Force founded in 1918			
Star of David	A Jewish symbol used on the flag of Israel.		■ Why was morale important during the blitz?	
The Blitz	A German bombing campaign against the UK, attacking key cities across the country.		☐ Why did Britain win the battle of Britain?	

Term 4

Year 6 - Rights and Respect

Sticky Knowledge about Rights and Respect

- Does someone's social media profile give a true view of them? Why do people only show aspects of themselves?
- Does social media affect how a person feels about themselves?
- Can social media create pressure on people? How?
- How can someone have a healthy relationship with social media?
- What things have an impact on the environment?
- What can someone do to help the environment?
- What is 'sustainable' living? How can we change to live more sustainably?
- What different ways can you save money? Are there advantages and disadvantages to saving money?



Key Skills

To explain why people might do this (why they are showing certain aspects of themselves) and how social media can affect how a person feels about themselves.

To explain that what 'environmentally sustainable' living means and give an example of how we can live in a more 'sustainable' way.

To explain the advantages and disadvantages of different ways of saving money.

Key vocabulary		
Biased	Unfairly prejudiced against someone or something	
profile	A short description of someone	
stereotype	A widely held and often untrue view of something or someone	
pressure	Use of persuasion or intimidation to make someone do something	
Online safety	Protecting against risks of online	
Social media	Websites that focus on communication	
reuse	Use more than once	
sustainable	Able to continue over a period of time	
election	A formal vote	
candidate	A person who applies of is nominated for election	
democracy	A system of government with elected representatives	

RE Term 4

Enquiry: Is Christianity still a strong religion over 2000 years after Jesus was on Earth?

Theme: Beliefs and Meanings/Salvation

Sticky Knowledge Who has been an influence or inspiration in my life? ■ What different types of festivals and celebrations do you know? What do they demonstrate about Christianity? ☐ How is Christianity influencing lives today? ☐ How does the influence of Christianity impact people in this country and around the world? □ Is Christianity a strong religion today? ■ What legacy would you like to leave the world?

Core Knowledge

Christian concepts such as Lent (the 40 days leading up to Holy Week commemorating Jesus' time fasting in the desert), Shrove Tuesday (the start of Lent), Ash Wednesday (when ashes from burnt palms from the previous years' Palm Sunday are placed on believers' foreheads) are all aspect of Christian preparation for Easter, Advent is the preparation time for Christmas. Christian charities can demonstrate Jesus' teaching to love your neighbour (demonstrate Agape) There are countries where people are persecuted for being Christians and Christians have to suffer if they stand up for their beliefs.

Key vocabulary		
Influence	To have an effect on someone else	
Inspiration	To be mentally stimulated to do something	
Legacy	The long-lasting impact of events or someone's actions	
festival	A day of celebration	
Charity	Organisation that help those in need	
Poverty	The state of being extremely poor	
Symbol	Image used to represent something	
persecutio n	Hostility and ill-treatment based on protected characteristics	
commandm ent	Rule to be observed as one of the ten commandments	

D.T Structures Term 4 WW2 Shelters

Key Skills

- Design a WW2 shelter featuring a variety of different structures, giving consideration to how the structures will be used.
- Consider effective and ineffective designs.
- Measure, mark and cut wood to create a range of structures.
- Use a range of materials to reinforce and add decorate structures.
- Improve a design plan based on peer evaluation.
- Test and adapt a design to improve it as it is developed.
- Identify what makes a successful structure.

Sticky Knowledge	
☐ How can structures be strengthened?	
☐ What is a footprint plan?	
☐ What is a prototype? Why is it a good idea?	
☐ After testing, how will you adapt your design?	

Apparatus	Equipment designed for recreation and play, such as seesaws and swings.	
Bench hook	A tool which hooks onto the edge of the workbench. It's used to hold woodwork still when sawing.	
Coping saw	A saw with a narrow D-shaped metal blade, used for cutting curves in woods.	
Dowel	Wood in the shape of a cylinder. Dowels come in all different sizes and thicknesses.	
Jelutong	A type of softwood, it is lightweight, easy to cut and shape.	
Mark out	To measure and mark where a piece of material needs to be cut or shaped.	
Modify	To change something to improve or fix it.	
Natural materials	Materials which come from nature. (e.g. wood comes from trees)	
Ptan view	A two-dimensional diagram used to describe a place or object from above with annotations and other details such as measurements.	
Prototype	A simple model that lets you test out your idea and how it will look and work.	
Reinforce	To make a structure or material stronger, especially by adding another material or element to it.	
Structure	Something which stands, usually on its own.	
Tenon saw	A saw with a flat blade, used for cutting wood in straight lines or angles.	
User	A person that uses something.	
Vice A piece of equipment used to hold an object st while you work on it.		