

Year 4 Spring 2

Science Crucial Knowledge

Living Things and Their Habitats

- Living things can be grouped and classified based on their characteristics.
- Animals can be classified as either vertebrates or invertebrates.
- Vertebrates are animals that have a backbone inside their body.
- Invertebrates don't have a backbone. They either have a soft body, like worms and jellyfish, or a hard outer casing covering their body, like spiders and crabs.
- Vertebrates include: mammals, fish, birds, reptiles, amphibians.
- Invertebrates include: insects, spiders, worms, slugs, snails.
- Environment - where something is/lives
- Plants and animals rely on what their environment provides them, so any changes to do this could be dangerous to the animals and plants living there.

History Crucial Knowledge

Roman Britain

- The Romans were a group of people who came from the city of Rome in Italy.
- The Romans invaded Britain in 43AD, around 2000 years ago.
- The Romans only conquered England and Wales and built Hadrian's Wall to protect their empire.
- The Romans brought many things to Britain including roads, laws and coins.
- Some Romans lived in stone houses called villas.
- The Romans left Britain in 410AD. They went to defend Rome itself from attack.

Design Technology Crucial Knowledge

Electrical Systems Simple circuits and switches

- A circuit is made up of a battery and wire
- An electrical circuit carries electricity from the battery along wires
- The circuit needs something to power like a bulb or a motor
- A switch can be added to the circuit so that it can be switched on or off

Computing Crucial Knowledge

Programming - Repetition in shapes

- An **algorithm** is a precise set of ordered instructions which can be turned into code
- **Coding** is how we communicate with computers. Code tells a computer what actions to take.
- A **process** is when a computer follows a set of instructions using the data that has been input.
- **Sequence**: steps carried out in order.
- **Selection**: A decision or a question
- **Repetition** – A repeat in code, repeating a sequence of instructions a certain number of times.

Music Crucial Knowledge

Spain

- Duration is the length of time each note is played for.
- Rhythm is a pattern of long and short sounds.
- Pitch is how high or low a sound is.
- Melody is an arrangement of notes.
- Dynamics is the volume of music
- Habanera is a dance style of music with a specific rhythm, often associated with Spain.

Physical Education Crucial Knowledge

Striking & Fielding - Cricket

- Co-operation is when you work together with others to achieve a result.
- Run is to move quickly using your feet.
- Movement is when changing position, posture or place.
- Communicating with others giving and receiving information.
- Collaboration is working with others to achieve/create something.
- Competing means to do your best against others.
- Throw is to push an object by hand with a sudden forward motion ending with straightening the arm and wrist.
- Catching is the use the hands to stop and hold a moving object. Eyes on the object, Finger tips together (two handed catch. Catch the object, then grip it.
- Striking is when you hit a ball with a bat or racket.
- Agility is how quickly you can change direction whilst maintaining speed, balance and power

Invasion - Football & Netball	<ul style="list-style-type: none"> • Kicking is when you hit an object (ball) with your foot • Attack is to try to move past and score against the opposing team. • Defend is to block the other team and stop them from scoring. • Throw is to push an object by hand with a sudden forward motion ending with straightening the arm and wrist. • Catching is the use the hands to stop and hold a moving object. • Eyes on the object, fingertips together (two handed catch) • Catch the object, then grip it. • Communicating with others giving and receiving information. • Collaboration is working with others to achieve/create something
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Religious Education Crucial Knowledge

A study of Christianity	<ul style="list-style-type: none"> • Christianity is focussed on the life and teachings of Jesus Christ; who Christians believe to be the Son of God. • Jesus was born in Bethlehem in the Middle East over 2,000 years ago. • Christians believe there is only one God, but that he is revealed in three different forms: God the Father, God the Son, The Holy Spirit. • The Christian holy book is the Bible. It is divided into the Old and New Testaments. • Many Christians worship in churches. • Christian church leaders are called priests or ministers. • Important Christian celebrations include Easter and Christmas.
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Personal, Social Health & Economic Education Crucial Knowledge

How can we manage our feelings?	<ul style="list-style-type: none"> • Feelings change because of mood, environment, personal circumstances, everyday experiences. These may make you feel happy, sad, confused, excited, nervous. • We all experience different feelings - all types of feelings are okay. • If you are worried you need to talk to someone who may be able to help you. • Feelings can change your appetite, sleep and social interaction.
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Spanish Crucial Knowledge

English	Spanish	English	Spanish
He / she has hair.	El / ella tiene el pelo...	sister	la hermana
brown	castaño	brother	el hermano
dark brown	moreno	baby	el bebé
black	negro	grandmother	la abuela
blonde	rubio	grandfather	el abuelo
red	pelirrojo	His/her name is...	Se llama...
He / she has... eyes.	El / ella tiene los ojos...	He is (adjectives). She is... (adjectives).	El es... Ella es...
blue	azules	tall	alto (m) alta (f)
brown	marrónes	short	bajo (m) baja (f)
green	verdes	strong	fuerte
black	negros	kind	amable
In my family, there is...	En mi familia hay...	chatty	hablador (m) habladora (f)
mother	la madre	funny	divertido (m) divertida (f)
father	el padre	shy	tímido (m) tímido (f)