

Year 5 – Autumn 1

Science Crucial Knowledge

Earth & Space

- The sun does not move.
- The Earth moves around (orbits) the sun.
- The Earth rotates (spins) on its axis.
- The Earth does a full rotation once every 24 hours.
- It takes 365 days and 6 hours (1 year) to orbit the sun.
- The sun is a huge star that Earth and the other planets in our solar system orbit around.
- The moon orbits the Earth.
- The planets in the solar system are: Mercury, Venus, Earth, Mars, Jupiter, Saturn, Uranus and Neptune.
- Daytime happens when the side of Earth is facing towards the Sun.
- Night happens when the side of Earth is facing away from the Sun.

Geography Crucial Knowledge

Around the World in half a term

Name and locate Hills & Mountains in UK

- A hill is a piece of land that rises higher than everything surrounding it.
- If a hill measures over 2000ft/ 609.6m then it is classed as a mountain.
- The highest mountain ranges are created by the ground (tectonic plates) pushing together and forcing the ground up where they meet.
- Summit is the highest point of a hill or mountain.
- A slope is the side of a mountain, hill, or valley.
- A valley is a low area of land between hills or mountains
- The highest mountain in England is Scafell Pike

Art & Design Crucial Knowledge

Drawing

- ‘Single focal point’ is the area of the drawing a viewer sees first.

Computing Crucial Knowledge

Computer Systems and Networks - Computing and Networks

- Digital Device is something that has a computer inside to make it work like a washing machine or mobile phone.
- Digital **Devices** process other things, other than switching on and off. Digital devices have inputs, processes, and outputs.
- **Input:** Data provided to a computer system, such as via a keyboard, mouse, microphone, camera or physical sensors.
- A **process** is when a computer follows a set of instructions using the data that has been input.
- **Outputs** The information produced by a computer system for its user; items on a screen, speakers, lights.
- **Connection.** A link between 2 or more things.
Computer Network: A group of two or more digital devices connected together.
- **Communication** When data is exchanged between two or more computing devices.
- **Collaboration** When more than one person works on a document or program from separate devices.
- **Technology** has to be used safely, respectfully and responsibly.

Music Crucial Knowledge

Solar System - Listening

- Singing is to perform songs or tunes using our voices.
- Tuned instrument is an instrument that plays set notes e.g. piano.
- Rhythm is the music’s pattern in time (counted).
- Dynamics are how loud or quiet the music is.
- Timbre is the quality of the sound of a voice or instrument.
- The structure of a piece of music, is how it is put together.
- An ensemble is when a group of people perform together.
- Improvise is to create a performance without preparation.

Physical Education Crucial Knowledge

Gymnastics

- Technique is a way of carrying out a particular task.
- Evaluate is to judge something.
- Flexibility is the range of movement through body joints.
- Movement is when changing position, posture or place.
- A pattern is when a movement or action is repeated.
- Communicating with others giving and receiving information.
- Collaboration is working with others to achieve/create something.

	<ul style="list-style-type: none"> • Co-ordination is the ability to move two or more body parts under control, smoothly and efficiently. • Jump is to lift off the ground from one foot onto two feet. During the flight of the jump, you should bend your legs slightly and land on two feet, with bent legs and without losing their balance. • Agility is how quickly you can change direction whilst maintaining speed, balance and power.
Swimming	<ul style="list-style-type: none"> • Swimming means to move through the water without touching the floor or side. • Flexibility is the range of movement through body joints. • Strength is a measure of power. • Technique is a way of carrying out a particular task. • Movement is when changing position, posture or place. • A pattern is when a movement or action is repeated.
Personal, Social Health & Economic Education Crucial Knowledge	
What makes up a person's identity	<ul style="list-style-type: none"> • A person's identity is what makes each person individual – looks, personality, beliefs, values • Stereotype means to class people as all the same for 1 or two reasons – this is wrong eg. All boys like football, boys shouldn't cry
French Crucial Knowledge – unit 7	
Crucial knowledge question	Crucial knowledge answer
Describing hair and eyes using colours, long, short. I have _____ eyes. I have _____ hair. Big, nice, shy, funny, talkative Nationalities – she is/ he is Canadian, French, British	Long – longs, short – courts, J'ai les cheveux (longs/courts) (colour) Grand, sympa, timide, drôle, bavard (Elle est/ il est) canadien, français, britannique