

Year 3 Spring 1

Science Crucial Knowledge

Plants

- The roots have 4 functions - 1) absorbing water and nutrients 2) anchoring the plant to the ground 3) store food and nutrients, 4) move water and minerals to the stem.
- The 3 functions of the stem/trunk are to 1) Support and hold up the leaves, flowers and fruits. 2) Transport water and nutrients between the roots and the shoots/leaves 3) Stores nutrients.
- The function of the leaves is to collect sunlight and make food by photosynthesis.
- The function of the flowers is to produce seeds to produce more of the same plant.

Geography Crucial Knowledge

It's a small world...or is it? Europe



- There are 50 countries in Europe.
- The largest country in Europe is Russia.
- The smallest country is The Vatican City which is also the smallest in the world.
- Locate The UK, France, Spain, Germany, Italy, Russia, Poland, Romania, Greece and Hungary.

Art & Design Crucial Knowledge

Painting

- Tone is how light or dark a colour is.
- Shade is a darker version of a colour.
- Complimentary colours sit opposite each other on the colour wheel.

Computing Crucial Knowledge

Data - Branching Databases

- **Data** is a collection of information that can be stored on a computer.
- Technology can be used to sort data.
- A **database** is an organised collection of structured information, or data that can be easily accessed, managed and modified.
- **Branching Database:** a way of classifying a group of objects
- Grouping and then sorting data allows us to answer questions

Music Crucial Knowledge

Playing an instrument

- Rhythm is the music's pattern in time (counted).
- Pitch is how high or low a sound is.
- Dynamics are how loud or quiet the music is.
- Tempo is the speed of the music.
- Simple notation is following pictures or words and joining in to sing or play an instrument.
- Duration is how long a piece of 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.

Physical Education Crucial Knowledge

Striking and Fielding Fundamentals





- Agility is how quickly you can change direction whilst maintaining speed, balance and power.
- 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.
- If you run and then jump the distance you jump will be longer
- Striking is when you hit a ball with a bat or racket.

Hockey/Tag Rugby

- Competitive sports are games where the aim of the game is to win
- Collaboration is working with others to achieve/create something.
- Competing means to do your best against others.

	<ul style="list-style-type: none"> • 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.
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Religious Education Crucial Knowledge

Symbols of Worship	<ul style="list-style-type: none"> • The use of symbols gives the believer a sense of belonging. • Similarities between the faiths (Sikhism, Buddhism, Christianity, Islam) is all of them signify love and peace, pray, have special occasions, all have places of worship and a holy book. • Differences between the faiths – all have different symbols, rituals and gestures. Different Holy books, places of worship E.g., Bible, Qur’an.
	<div style="display: flex; align-items: center;">  <ul style="list-style-type: none"> • The Christian Cross is used as a symbol for Christianity. It stands for the Holy Trinity. </div>
	<div style="display: flex; align-items: center;">  <ul style="list-style-type: none"> • The Eight-Fold Path wheel is used as a symbol for Buddhism. </div>
	<div style="display: flex; align-items: center;">  <ul style="list-style-type: none"> • The crescent and the star is used as a symbol for Islam. </div>
	<div style="display: flex; align-items: center;">  <ul style="list-style-type: none"> • The Khanda is used as a symbol for Sikhism. </div>

Personal, Social Health & Economic Education Crucial Knowledge

What keeps us safe?	<ul style="list-style-type: none"> • We need to be safe so that we are not hurt or put into dangerous situations. • We can protect ourselves by wearing a seatbelt in the car, wearing a helmet on a bike, wearing protective padding, stabilizers and reflective wear on bikes. • We can look after our bodies by making sure we have good personal hygiene e.g. washing hair, brushing teeth. • If we have personal medicines such as inhalers, we need to know how to use them properly. • If I have a small graze or cut it should be cleaned and a plaster put on it. • If I have a big injury, I would need to call for help. • Never take medicine meant for someone else - this can be dangerous and make you unwell.
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French Crucial Knowledge

Crucial knowledge question	
<ul style="list-style-type: none"> • Saying and asking your age • Colours – pink, red, blue, yellow, orange, brown green, white, black, grey, purple 	<ul style="list-style-type: none"> • Quel âge as-tu? J’ai (number) ans. • Rose, rouge, bleu, jaune, orange, marron, vert, blanc, noir, gris, violet