

# 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"> <li>• Attack is to try to move past and score against the opposing team.</li> <li>• Defend is to block the other team and stop them from scoring.</li> <li>• Throw is to push an object by hand with a sudden forward motion ending with straightening the arm and wrist.</li> <li>• 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.</li> </ul>
<b>Religious Education Crucial Knowledge</b>	
<b>Symbols of Worship</b>	<ul style="list-style-type: none"> <li>• Symbols, actions, and gestures are important in worship for religious faiths.</li> <li>• They are used to express important beliefs and values, and to help worshippers connect with their faith.</li> <li>• Similarities between the faiths (Christianity, Hinduism and Judaism) is all of them signify love and peace, pray, have special occasions, all have places of worship and a holy book.</li> <li>• Differences between the faiths – all have different symbols, rituals and gestures. Different Holy books, places of worship E.g. Bible, Vedas.</li> </ul>
<b>Personal, Social Health &amp; Economic Education Crucial Knowledge</b>	
<b>What keeps us safe?</b>	<ul style="list-style-type: none"> <li>• We need to be safe so that we are not hurt or put into dangerous situations.</li> <li>• 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.</li> <li>• We can look after our bodies by making sure we have good personal hygiene e.g. washing hair, brushing teeth.</li> <li>• If we have personal medicines such as inhalers, we need to know how to use them properly.</li> <li>• If I have a small graze or cut it should be cleaned and a plaster put on it.</li> <li>• If I have a big injury, I would need to call for help.</li> <li>• Never take medicine meant for someone else - this can be dangerous and make you unwell.</li> </ul>
<b>French Crucial Knowledge</b>	
<b>Crucial knowledge question</b>	
<ul style="list-style-type: none"> <li>• Saying and asking your age</li> <li>• Colours – pink, red, blue, yellow, orange, brown green, white, black, grey, purple</li> </ul>	<ul style="list-style-type: none"> <li>• Quel âge as-tu? J'ai (number) ans.</li> <li>• Rose, rouge, bleu, jaune, orange, marron, vert, blanc, noir, gris, violet</li> </ul>