

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

- Technology can be used to sort data.
- **Data** is a collection of information that can be stored on a computer.
- A **branching database** is a collection of data organised in a tree structure using yes/no or true/false questions.
- **Grouping** and then **sorting** data allows us to answer questions

Vocabulary: attribute, value, questions, table, objects, branching, database, objects, equal, even, separate, structure, compare, order, organise, selecting, information, decision tree.

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	<ul style="list-style-type: none"> 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. 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"> Symbols, actions, and gestures are important in worship for religious faiths. They are used to express important beliefs and values, and to help worshippers connect with their faith. 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. Differences between the faiths – all have different symbols, rituals and gestures. Different Holy books, places of worship E.g. Bible, Vedas.
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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. <ul style="list-style-type: none"> We stay safe online by evaluating what we see and tell a responsible adult if anything makes you feel upset or worried. Online actions have in person consequences.
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Spanish Crucial Knowledge

English	Spanish	English	Spanish
How old are you?	¿Cuántos años tienes?	Pink	rosa
I have years. He/she has... years.	Tengo... años. Tiene... años.	Red	rojo
Where do you live?	¿Dónde vives?	Blue	azul
I live in...	Vivo en...	Yellow	amarillo
Colours	Los colores	Orange	anaranjado
Black	negro	Brown	marrón / café
White	blanco	Green	verde
Grey	gris	Purple	morado / púrpura
Numbers 1-10	uno, dos, tres, cuatro, cinco, seis, siete, ocho, nueve, diez		
Numbers 11-20	once, doce, trece, catorce, quince, dieciséis, diecisiete, dieciocho, diecinueve, veinte		