# Year 4 Summer 1

## Science Crucial Knowledge

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| Sound | • Sounds are created by vibrations.<br>• Vibrations are movements backwards and forwards.<br>• Sound waves (vibrations) travel through solids, liquids and gasses to the ear.<br>• The pitch tells you how high or low a sound is.<br>• The volume tells you how loud or quiet a sound is.<br>• The louder the sound the bigger the vibrations are.<br>• The further away from a sound you are, the quieter it is because the vibrations have further to travel. |

## Geography Crucial Knowledge

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| This is Our Earth<br>The Water Cycle | • The journey water takes as it moves from the land to the sky and back again is called The Water Cycle.<br>• Evaporation is when a liquid (for example, water) changes to a gas due to it being heated.<br>• Condensation is when water vapour (gas) is cooled down, which then it changes into a liquid (for example water).<br>• Precipitation is rain, hail, sleet and snow that fall from the clouds.<br>• Collection occurs when water that falls from the clouds, collects in oceans, rivers, lakes and streams. Most will infiltrate (soak) into the ground and will collect as underground water.<br>• The draining away of water from the surface of the land back into a river / lake / ocean is called run-off. |

## Art & Design Crucial Knowledge

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| Sculpture | • If you 'pinch clay' you use your thumb and finger to shape the clay.<br>• 'Coiling' means to spiral the clay in an upward motion to form a shape.<br>• Carving means to use tools to scrape away parts of the clay. |

## Computing Crucial Knowledge

| Creating Media - Audio editing | CK | Skills |
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| | • **Software** is the programme or operating system that a computer uses.<br>• **Hardware** is the physical components of a computer.<br>• **Input**: Data provided to a computer system, such as via a keyboard, mouse, microphone, camera or physical sensors.<br>• **Outputs** The information produced by a computer system for its user; items on a screen, speakers, lights.<br>• You can create audio with computers such as a podcast | • Know how to record sound using a computer<br>• Know how to play recorded audio<br>• Know how to import audio into a project<br>• Know how to delete a section of audio<br>• Know how to change the volume of tracks in a project<br>• Can choose appropriate edits to improve my podcast |

**Vocabulary** audio, microphone, speaker, headphones, input device, output device, sound, podcast, edit, trim, align, layer, import, record, playback, selection, load, save, export, MP3, evaluate feedback

## Music Crucial Knowledge

### Musical Learning

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| Monsters, Monsters<br><br>(Instrumental Unit) | • Demonstrate a solid recorder technique, holding the recorder correctly and using tongued articulation.<br>• Learn how to play the notes B A G C D and low E on the recorder.<br>• Explore expression on the recorder by using two types of articulation (tonguing), smooth (*legato*) and short (*staccato*) sounds.<br>• Learn to play at least two sections in *Monsters, monsters*<br>• Play as part of an ensemble, in smaller and larger groups, including singing and playing. |

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| | • Sing *Monsters, monsters!* from memory, expressing the meaning of the words through actions and gestures.<br>• Create and explore new sounds on the recorder (extended techniques) to represent different kinds of monster characters.<br>• Using graphic notation to organise monster character sounds into a compositional structure.<br>• Listen to, appreciate, and be inspired by pieces of music featuring the recorder from medieval times to the present day. |
| **Physical Education Crucial Knowledge** | |
| **Athletics** | • Competitive sports are games where the aim of the games is to win<br>• Run is to move quickly using your feet.<br>• 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.<br>• If you run and then jump the distance you jump will be longer<br>• Throw is to push an object by hand with a sudden forward motion ending with straightening the arm and wrist.<br>• Catching is the use the hands to stop and hold a moving object.<br>• Strength is a measure of power.<br>• Technique is a way of carrying out a particular task.<br>• Movement is when changing position, posture or place. |
| **Net games – Tennis** | • Striking is when you hit a ball with a racket.<br>• Strength is a measure of power.<br>• Technique is a way of carrying out a particular task.<br>• Communicating with others giving and receiving information.<br>• Collaboration is working with others to achieve/create something.<br>• Competing means to do your best against others.<br>• Evaluate is to judge something. |
| **Summer 1** | |
| **Thinking about God** | • Christians believe in only one God.<br>• Hindus believe that their supreme God is Brahman.<br>• Brahman can appear in different forms. Especially three forms called the Trimurti.<br>• Hindus believe that life is a cycle of birth, death, and rebirth. They also believe that the next life depends on how the previous life was lived.<br>• Hindus believe in many Gods - all these Gods have specific roles. |
| **Personal, Social Health & Economic Education Crucial Knowledge** | |
| **How will we grow and change?** | • Puberty is when a child's body begins to develop and change as they become an adult.<br>• Girls develop breasts and start their periods.<br>• Boys develop a deeper voice and facial hair will start to appear.<br>• Boys and girls might find that their mood changes and they feel more emotional.<br>• It is important to stay clean.<br>• Personal hygiene needs to include regular washing and changing of underwear and clothing. |

**Spanish Crucial Knowledge**

| English | Spanish | English | Spanish |
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| Days of the Week | lunes, martes, miércoles, jueves, viernes, sábado, domingo. | When is your birthday? | ¿Cuándo es tu cumpleaños? |
| Numbers 1-10 | uno, dos, tres, cuatro, cinco, seis, siete, ocho, nueve, diez | My birthday is… | Mi cumpleaños es el.. (date) de (month). |
| Numbers 11-20 | once, doce, trece, catorce, quince, dieciséis, diecisiete, dieciocho, diecinueve, veinte | How old are you? | ¿Cuántos años tienes? |
| Numbers 21-31 | veintiuno, veintidós, veintitrés, veinticuatro, veinticinco, veintiséis, veintisiete, veintiocho, veintinueve, | I have …. years.<br><br>He/she has… years. | Tengo… años.<br><br>Tiene… años. |

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| | treinta,<br>treinta y uno. | | |
| Months of the year | enero, febrero, marzo, abril, mayo, junio, julio, agosto, septiembre, octubure, noviembre, diciembre | | |