

Rule Britannia







The Crown
Year 1/2

History

As historians we will be looking at the lives of King Charles III and Queen Elizabeth II. Children will place key, significant events on a timeline and will ask and answer questions about the lives and the impact they have had on the United Kingdom and the wider world.

Curriculun	n Objective	Prior Knowledge	Disciplinary knowledge	Substantive knowledge
NC1: Changes within living memory. Where appropriate, these should be used to reveal aspects of change in national life		 Year 1 Talk about a significant event from the past in relation to a key world events (E.g. Queen's coronation Talk about special events that have happened as a family in the past and present Order given events on a timeline as a class and or group – linked to an experience or themselves Year 2 Talk about changes that have occurred in their own lives and use given relevant dates to represent As a class or small group, ask and answer questions about an individual/event Talk and explore significant historical figures from the past Order 4 given dates and key events on a timeline 	 Year 1 Talk about changes that have occurred in their own lives and use given relevant dates to represent As a class or small group, ask and answer questions about an individual/event Talk and explore significant historical figures from the past Order 4 given dates and key events on a timeline Year 2 Talk about changes that have occurred in their own lives and choose relevant dates to represent Ask and answer questions about an individual/event Match and order 4 given dates and key events on a timeline Start to understand that past events/people have an impact on everyday life 	 Queen Elizabeth was Queen for 70 years. Queen Elizabeth was married to Phillip. Queen Elizabeth had 4 children. King Charles lives in Buckingham Palace. King Charles was born in 1948. King Charles married Camilla in 2005. Queen Elizabeth died in 2022. King Charles' coronation took place in 2023.
		Sequence of Learning		
Ask and Answer Questions	Ask and Answer Questions	King Charles Timeline		
about Queen Elizabeth	about King Charles	On a timeline, children to plot:		
 As a class come us with questions about King Charles. For example: ⇒ How long was Queen Elizabeth queen for? ⇒ Who was Queen Elizabeth married to? ⇒ How many children did Queen Elizabeth have? Carry out research to answer questions. 	 As a class come us with questions about King Charles. For example: ⇒ Where does King Charles live? ⇒ Who is King Charles married to? ⇒ How many children does King Charles have? Carry out research to answer questions. 	 When was King Charles born? When did King Charles get married to Camilla? When did Queen Elizabeth die? 		Assessment Substantive knowledge Quiz on substantive knowledge Disciplinary knowledge Act out the life of King Charles
reign	monarch	coronation		

Geography

As Geographers, children will be able to name and locate the four countries of the United Kingdom. Children will be able to identify the capital cities of each of these countries and will name the seas surrounding them. Children will use world maps to identify key human and physical features within Britain.

Art

As artists, children will be creating a piece of art inspired by Pop Art, Hockney and Roy Lichtenstein. Firstly, children will create a mood board using images of Hockney's and Lichtenstein's art work, identifying pieces of art work that they like and dislike. Children will then practise using the techniques from Lichtenstein and Hockney, with a focus on bright colour and using black outlines around key shapes. Children will have an opportunity to practise using paintbrushes to create block areas of colour. Children will then sketch their own piece of art work using Lichtenstein and Hockney as inspiration, using the local area as inspiration for some of their art work. Finally, children will create their own individual piece of Pop Art, using bright colours, paint and outlining.

Curriculum	n Objective	Prior Knowledge	Disciplinary knowledge	Substantive knowledge
NC2: to use drawing, painting and scul- experiences and imagination NC3: to develop a wide range of art an pattern, texture, line, shape, form and spa NC4: about the work of a range of arti- describing the differences and similarities to disciplines, and making links to their own	d design techniques in using colour, ce sts, craft makers and designers, between different practices and	Year 1 Explore using lines and colour Explore a range of mark making tools to make lines and shapes Explore using thick and thin brushes Year 2 Draw lines of different thicknesses Colour work neatly Use thick and thin brushes	Year 1 Draw lines of different thicknesses Colour work neatly Use thick and thin brushes Year 2 Add texture and pattern Use a range of tones to colour Use thick and thin brushes	 Pop art is a style of art is based on simple, bold images painted in bright colours. David Hockney is a pop artist. Roy Lichtenstein is a pop artist. A sketch is a rough drawing made to help the making of a final piece. A pattern is a design in which lines, shapes, or colours are repeated. An outline is a line that goes around the outside of something.
		Sequence of Learning		
Mood board and techniques	Sketching	Creation		
 Give children a range of images which represent pop art and give them the chance to explore and discuss these images. Children to create their own mood board using images that stand out to them. Children to annotate their mood board discussing what they like and dislike. Children to choose their favourite image from the mood board and replicate using as much detail as they possibly can. Teach some of the techniques used by Lichtenstein and Hockney (bright colour and black outlines) 	Children to use their mood board and learnt techniques to sketch ideas for their final piece of pop art.	 Children to draw and paint to create their own individual piece of pop art in their chosen style. Children to evaluate their sketches. 		Assessment Substantive knowledge Quiz on substantive knowledge Disciplinary knowledge Art gallery peer critique
pop art	outline	creation		

Design Technology

As Designers, we will use structures and levers to design and make our own castles with moving draw bridges. As designers we will look at a range of products before we design our own. We will evaluate our design and make improvements.

Curriculun	n Objective	Prior Knowledge	Disciplinary knowledge	Substantive knowledge
 NC1: To design a purposeful, functional, other users based on design criteria NC2: To generate, develop, model and talking, drawing, templates, mock-ups and communication technology NC3: To select from and use a range of practical tasks such as cutting, shaping, join NC4: To select from and use a wide ratification construction materials, textile NC5: To explore and evaluate a range NC6: To evaluate their ideas and products NC7: To build structures, exploring how and more stable NC8: To explore and use mechanisms, sin their products 	communicate their ideas through d, where appropriate, information and f tools and equipment to perform sining and finishing and components, es of existing products against design criteria	Year 1 will know: Scissors are used for cutting. How to hold scissors correctly. Glue can be used to join materials. Year 2 will know: What a mechanism is. Give some examples of everyday objects with mechanisms Explain how some mechanisms work How to create sketches or their ideas.	Year 1 Hold scissors correctly and use them to cut along a straight, curved and zigzag line with increasing accuracy Explore using glue/sellotape and masking tape to join two or more materials Year 2 To cut materials safely using provided tools Use materials to practise gluing to make and strengthen products	 Mechanisms are the parts that allows something to move. A lever is a bar that rests on a pivot to move something. A pivot is to turn on a central point.
		Sequence of Learning		
 Research of real designs Look at castles from different periods. Consider the reasons behind the designs. (Look at the history of castles). Design ideas Using the research carried out, design their own castle. Consider the purpose of different materials. 	 Use a range of tools to cut and shape materials. Use a variety of tools to cut and finish materials. Consider how to use the tools safely. Look at ways to join materials in a variety of ways. 	 Improving stability To consider how to make the castle stronger, stiffer and more stable. Add additional parts to make it more stable. Mechanisms Include a mechanism in their castle (lever). Learn about how la ever mechanism works. 	 Put the castle through a range of tests. To evaluate what works and work doesn't work. To consider how things can be improved. Improving After testing, consider how the product can be improved. Make the changes and retest or draw a labelled sketch to show where the label would be made. 	Substantive Quiz on substantive knowledge Disciplinary Explain to others class how to make final piece
moving	lever	mechanism	cutting	

Music—Year 1

As musicians we will be focussing on exploring sounds and listening and thinking about the questions, 'How does music make the world a better place?' and 'How does music help us to understand our neighbours?' We will listen to and talk about a wide a range of musical styles. We will use glockenspiels when learning songs and in our improvisation and composing and we will listen and appraise other music and talk about what we like and dislike about these styles of music.

Curriculun	n Objective	Prior Know	ledge	Disciplinary knowledge	Substantive knowledge
NC1: To use their voices expresspeaking chants and rhymes NC2: To play tuned and un-tu NC3: To listen with concentrate range of high-quality live and results and the using the inter-related dimension	ned instruments musically tion and understanding to a corded music ate, select and combine sounds	 To know some nursery rhymes off by heart. To know that we can move with the pulse of the music. To know that the words of songs can tell stories and paint pictures. To know a performance is sharing music. Understanding Music		 Understanding Music Find and keep a steady beat together. Very simple rhythm patterns using long and short Very simple melodic patterns using high and low Responding Talk about feelings created by the music. Singing Sing songs from memory. Sing and recognise high and low sounds Sing in unison. Compose Create a graphic score using sounds, rhythms and pitch. Understand the difference between creating a rhythm pattern and a pitch pattern Perform Prepare a song to perform. Play some simple instrumental parts on the glockenspiel. 	 Dynamics is how loud or quiet a piece of music is. Tempo is how fast or slow a piece of music is. Pulse is the beat of the music. Rhythm is the pattern of sounds in music. Pitch is whether notes are high or low.
		Und	derstanding Music		
If You're Happy And You Know It	Sing Me A Song	Sparkle	Rhythm In The Way We Walk	<u>Big Bear Funk</u>	Substantive Year 1 End of Unit 1 theory quiz
рор	waltz	рор	reggae	funk	<u>Disciplinary</u>
Days of the Week Name Song		Cuckoo	<u>Upside Down</u>	Hush Little Baby	Perform finished version of choice to another class Substantive
swing pop		waltz	waltz	lullaby	Year 1 End of Unit 2 theory quiz Disciplinary
					Perform finished version of choice to another class

Music—Year 2

As musicians we will be focussing on emotions and pitch and thinking about the questions, 'How does music make the world a better place?' and 'How does music teach us about our neighbourhood?' We will be exploring the social side to music and how the central role of listening to music, even when performing, leads to caring and aiding the development of empathy. We will listen to and talk about a wide a range of musical styles. And discuss how music can bring people closer together.

Curriculum	Objective	Prior Know	ledge	Disciplinary knowledge	Substantive knowledge
NC1: To use their voices expresspeaking chants and rhymes NC2: To play tuned and untuned NC3: To listen with concentration range of high-quality live and reconstruction of the concentration of the	ed instruments musically on and understanding to a orded music e, select and combine sounds	meaning. • (rhythm, rap, pitch, pulse) Understanding Music		 Improvising is when you make up your own tunes on the spot. It is not written down and belongs to them. Tempo is how fast or slow a piece of music is. Rhythm is the pattern of sounds in music. Minim is a note played for two beats. Crotchet is a musical note with time value of one beat. Quaver is a musical note played for half a beat. Timbre is different instrumental and vocal sounds. 	 Improvising is when you make up your own tunes on the spot. It is not written down and belongs to them. Tempo is how fast or slow a piece of music is. Rhythm is the pattern of sounds in music. Minim is a note played for two beats. Crotchet is a musical note with time value of one beat. Quaver is a musical note played for half a beat. Timbre is different instrumental and vocal sounds.
		Und	derstanding Music		
Rainbows (Part 1)	Rainbows (Part 2)	Hands, Feet Heart (Part 1)	Hands, Feet Heart (Part	All around the world	<u>Substantive</u>
			2)		Year 2 End of Unit 1 theory quiz
Рор	compose	Beat	Musicianship	High and low	<u>Disciplinary</u>
Helping each other (Part 1)	Helping each other (Part 1) Helping each other (Part 2)		The Music Man (Part 2)	Let's sing together.	Perform finished version of choice to another class
					Substantive
					Year 2 End of Unit 2 theory quiz
minims crotchets		Marching band	Timbre	Improvise	<u>Disciplinary</u>
					Perform finished version of choice to another class

<u>PE - Year 1</u>

Spring 1: Dance: Performance dance Spring 2: Games: Object Control Indoor

	Curriculum	. Objective	Prior Knowledge	Disciplinary knowledge	Substantive knowledge	
Spring 2 NC1: master basic movell as developing bala of activities	using simple moveme ovements including ru ance, agility and co-ord eam games, developin	nning, jumping, throwination, and begin to ap	 Practised a range of ball skills including: throwing, catching, kicking, passing, batting, and aiming. Developing confidence, competence, precision and accuracy when engaging in activities that involve a ball. Practised jumping, running, hopping and skipping. Practise moving with developing control. 	 Demonstrate effective and safe jumping and landing technique. Turn and spin with some control. Move in different ways. Consistently roll with control. Balance consistently using different body parts. Copy a 5 part sequence. Introduce a linking movement. Roll with accuracy Throw with accuracy Can predict where to move to stop a ball Show elements of leadership in a group 	 Receiving feedback on a sequence is helpful towards the final performance. A routine to a beat is where your sequences is fluid to the tune. Expression in dance is using your face. Practising the routine with gain more fluidity 	
			Sequence of Learning			
To know and use different methods of travelling	To use different gymnastic movements	To perform a simple sequence	To know and use different methods of moving on the ground	To perform a sequence of movements	To create a simple sequence using balance and a roll	Substantive Quiz on substantive knowledge Disciplinary
level	level precise linking rolling				balance	Take a video on the iPads
To explore ways of moving an object	To use both sides of the body to move an object	To use different take-off and landing points	To create an original sequence	To control whilst changing direction	To control an object using a stick or bat	of the dance routine Take a video on the iPads of controlling a ball whilst
control	concentration	space	roll	control	precise	changing directions

PE - Year 2

Spring 1: Dance: Performance
Spring 2: Games: Sending and receiving

	Curriculum	ı Objective	Prior Knowledge	Disciplinary knowledge	Substantive knowledge	
Spring B NC1: master basic more well as developing bala activities	using simple movemer ovements including rur ance, agility and co-ordi eam games, developing	ining, jumping, throwing throwing and begin to ap	 To keep control of the ball between your feet/hand making small touches. Send and control on the move Demonstrate ability to speed up and slow down. 	 Show accuracy Demonstrate ability to speed up, slow down and add different levels. Throw to a receiving partner Talk to a partner 	 Receiving feedback on a sequence is helpful towards the final performance. A routine to a beat is where your sequences is fluid to the tune. Using different levels in my sequence is having different heights whilst moving. Practising the routine with gain more precision For my target to receive a ball I need to be in control of my body. Hand-eye coordination is keeping my eye on the ball to accurately receive it. 	
			Sequence of Learning			
To explore dance moves	To learn dance moves	To perform a sequence of movements	To create an original sequence	To perform a sequence of movements	To perform in time to music	
						Substantive
Awareness, Technique	Response, effort	Control, sequence	Change, Timing	Feedback, energy	Routine, Precision	Quiz on substantive knowledge
To know the basic principles of sending and receiving	To know effective striking techniques	To roll with accuracy	To apply striking technique	To bounce a ball accurately	To apply striking skills	Disciplinary Take a video on the iPads of the dance routine Take a video on the iPads of the precision in striking
Speed, Decision	Accuracy, power	Follow through, concentrate	Coordination, concentration	Focus, Hand-Eye coordination	Various sized balls, cones	

PSHE—Year 1

Dreams and Goals - In this unit, we will talk about setting simple goals, how to achieve them as well as overcoming difficulties when we try. We will learn to recognise the feelings associated with facing obstacles to achieving our goals as well as when we achieve them. We will discuss partner working and how to do this well.

Healthy Me - As part of this unit, we learn about healthy and less healthy choices and how these choices make us feel. We will learn about hygiene, keeping ourselves clean and that germs can make us unwell. We will learn about road safety, and about people who can help us to stay safe.

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		Curri	iculun	ı Obje	ctive			Prior K	nowledge	Disciplinary knowledge	Substantive knowledge																
R1	R2	R3	R4	R5	R6	R7	R8			 Dreams and Goals Know how to set simple goals Know how to achieve a goal 																	
R9	R10	R11	R12	R13	R14	R15	R16	Dreams and GoalsKnow what a challenge is		Know how to identify obstacles which make achieving their goals difficult and work out how to overcome them	A goal is something to aim for and achieve. An abstrala is something that is																
R17	R18	R19	R20	R21	R22	R23	R24	 Know that it is important to keep to Know what a goal is Know how to set goals and work to the Know how to set goals and work to the Know how to set goals and work to the Know how to set goals and work to the Know how to set goals and work to the Know how to set goals and work to the Know how to set goals and work to the Know how to set goals and work to the Know how to set goals and work to the Know how to set goals and work to the Know how to set goals and work to the Know how to set goals and work to the Know how to set goals and work to the Know how to set goals and work to set goals and		 Know when a goal has been achieved Know how to work well with a partner Know that tackling a challenge can 	 An obstacle is something that is in someone's way. Team work is working with 																
R25	R26	R27	R28	R29	R30	R31	R32	 Know which words are kind Know some jobs that they might li Know that they must work hard no 	ke to do when they are older ow in order to be able to achieve the job	stretch their learning Healthy Me Know the difference between being	 others to achieve something. Healthy means someone making the right choices that are good 																
H1	H2	НЗ	H4	H5	H6	H7	Н8	they want when they are older Know when they have achieved a	,	 healthy and unhealthy Know some ways to keep healthy Know how to make healthy lifestyle 	for the body and mind. Unhealthy means making																
H9	H10	H11	H12	H13	H14	H15	H16	Healthy Me Know what the word 'healthy' med Know some things that they need		choices Know that all household products, including medicines, can be harmful if	choices that are not good for the body and mind. • Personal hygiene is the way we																
H17	H18	H19	H20	H21	H22	H23	H24	 Know the names for some parts of Know when and how to wash their 	their body	 Know that medicines can help them if they feel poorly Know how to keep safe when crossing the road Know how to keep themselves clean 	care for our bodies • Safe medicines are medicines																
H25	H26	H27	H28	H29	H30	H31	H32	properlyKnow how to say no to strangersKnow that they need to exercise to			that we are allowed to take when we are ill. • Road safety is knowing how to																
H33	H34	H35						 Know how to help themselves go t Know what to do if they get lost 	o sleep and that sleep is good for them	 and healthy Know that germs cause disease/illness Know about people who can keep them safe 	cross the road safely.																
								Sequ	ence of Learning																		
Dreams Goals	and Go	Goals - Steps to Dreams and Goals - Achieving Together Dreams and Goals - Stretchy Learning Dreams and Goals - Overcom Obstacles		Dreams and Goals - Overcoming Obstacles	Dreams and Goals - Celebrating My Success	Substantive Quiz on substantive knowledge																					
stepping	stones			team work		team work		team work		team work		team work		team work		team work		team work		team work		team work		challenge overcome		achieve	Disciplinary Act out different scenarios to class
Healthy	Me[Being H	ealthy	Healthy Me - Healthy Choices		Healthy Me - Healthy Choices		Healthy Me - Healthy Choices		Healthy Me - Healthy Choices		monitali ivio - monitali i nairos i		Healthy Me - Clean and Healthy Me - Medicine Safety		Healthy Me - Road Safety	Substantive Quiz on substantive knowledge Disciplinary										
unhealth	าษู			balanced			hygiene safe		Green Cross Code	Healthy poster to be displayed around school																	

PSHE—Year 2

Dreams and Goals— Children will explore setting realistic goals and how they can achieve them. We will discuss perseverance when they find things difficult as well as recognising ther strengths as a learner.

Healthy Me— We will learn about healthy food and what it looks like to have a healthy relationship with food and making healthy choices. We will explore what makes us feel relaxed and what makes us feel stressed. We will also learn about medicines, how they work and how to use them safely.

	Curriculum Objective		Prior Knowledge	Disciplinary Knowledge	Substantive Knowledge
R1 R2 R3 R9 R10 R11 R17 R18 R19 R25 R26 R27 H1 H2 H3 H9 H10 H11 H17 H18 H19 H25 H26 H27 H33 H34 H35	H20 H21 H22	R7 R8 R15 R16 R23 R24 R31 R32 H7 H8 H15 H16 H23 H24 H31 H32	 Dreams and Goals Know how to set simple goals Know how to achieve a goal Know how to identify obstacles which make achieving their goals difficult and work out how to overcome them Know when a goal has been achieved Know how to work well with a partner Know that tackling a challenge can stretch their learning Healthy Me Know the difference between being healthy and unhealthy Know some ways to keep healthy Know how to make healthy lifestyle choices Know that all household products, including medicines, can be harmful if not used properly Know that medicines can help them if they feel poorly Know how to keep safe when crossing the road Know how to keep themselves clean and healthy Know that germs cause disease/illness Know about people who can keep them safe 	 Know how to choose a realistic goal and think about how to achieve it. Know that it is important to persevere. Know how to recognise what working together well looks like. Know what good group working looks like. Know how to share success with other people. Healthy Me Know what their body needs to stay healthy. Know what relaxed means. Know why healthy snacks are good for their bodies. Know how medicines work in their bodies. Know that it is important to use medicines safely. 	 A goal is an aim or desired result. Perseverance is doing something despite it's difficulty.
Dreams and Goals - Goals to Success.	Dreams and Goals - My learning strengths. persevere	Dreams and Goals - Learning with others.	Dreams and Goals - A group challenge success	Dreams and Goals - Celebrating our achievements proud	Substantive Quiz on substantive knowledge. Disciplinary Act out different scenarios.
Healthy Me Being Healthy Lifestyle	Healthy Me Being relaxed	Healthy Me Medicine safety Dangerous	Healthy Me Healthy eating Healthy	Healthy Me Happy, healthy Me.	<u>Substantive</u> Quiz. <u>Disciplinary</u> Create a healthy poster

Religious Education—Year 1 - Christianity

Jesus as a Friend - Was it always easy for Jesus to show friendship? We will be learning to identify when it is easy and difficult to show friendship and to explore when Jesus may have found it difficult.

Easter - Palm Sunday - Why was Jesus welcomed like a king or celebrity by the crowds on Palm Sunday? We will be learning that Jesus is special to Christians and how His welcome on Palm Sunday shows this.

Curriculum	Objective	Prior Knowledge	Disciplinary knowledge	Spring B - Substantive knowledge
Autumn A Religion: Christianity Concept: Incarnation Autumn B Religion: Christianity Concept: Incarnation		 Jesus is the son of God Jesus is a special person to Christians Jesus taught us to be a friend to others Jesus died on the cross Christians worship at church 	 Describe some of the teachings of a religion. Describe some of the main festivals or celebrations of a religion. Recognise, name and describe some religious artefacts, religious places and their practices. Identify the things that are important in their own lives and compare these to religious beliefs. Relate emotions to some of the experiences to that of religious figures. Identify how and why they have to make their own choices in life. Explain how their actions affect others. 	 Christians believe that Jesus is a good friend Christians believe Jesus is sinless Jesus helps people in times of need Holy week starts with palm Sunday Palm Sunday is the day where Jesus rode into Jerusalem. Jesus was resurrected Jesus was believed to be 33 when he died Christians believe that Jesus was sent to save them
Engagement (1 lesson)	Investigation (2 lessons)	Evaluation (1 lesson)	Expression (1 lesson)	Substantive Quiz on substantive knowledge Disciplinary Create a poster of learnt knowledge
included	friendship	overcome	value	
Engagement (1 lesson) Investigation (3 lessons)		Evaluation (1 lesson)	Expression (1 lesson)	Substantive Quiz on substantive knowledge Disciplinary Act out the Easter Story
special	Bible	resurrection	respect	

Religious Education—Year 2

Judaism— In RE we will be looking at how important is it for Jewish people to do what God asks for them to do?

Christianity— How important is it to Christians that Jesus came back to life after his crucifixion?

Curriculum Objective		Prior Knowledge	Disciplinary Knowledge	Spring B - Substantive knowledge
Spring A Religion: Judaism Concept: Prayer at Home Spring B Religion: Christianity Concept: Salvation		 Describe some of the teachings of a religion. Recognise name and describe some artefacts. Describe some of the main festivals or celebrations of a religion. Identify the things that are important in their own lives and compare these to religious beliefs. 	 I can talk about why I do as some people ask but not others. I can talk about the Seder meal, or another Jewish practice and start to explain why they choose to do this. I can suggest what I think are the most and least important things Jews do that God asks them to do and add at least one reason. I can say what I believe happens to you when you die and tell you how I remember people close to me. I can recall what Christians believe happened on Easter Sunday. I can start to suggest a different explanation as to what happened to Jesus after the empty tomb and offer my opinion. 	 Respect is when you think about others feelings and rights The Seder meal is a feast to start Passover Passover and the Seder meal are a way Jews remember their relationship with God Jews follow the Sabbath laws A synagogue is the building for special worship A belief is thinking something is true without proof The cross is to symbolise Jesus' crucifixion An Easter egg is a symbol of new life Christians believe in life after death
Engagement (1 lesson)	Investigation (3 lessons)	Evaluation (1 lesson)	Expression (1 lesson)	Substantive Quiz on substantive knowledge Disciplinary Create a poster of learnt knowledge
Respect	Passover	Special	Importance	
Engagement (1 lesson)	Investigation (3 lessons)	Evaluation (1 lesson)	Expression (1 lesson)	Substantive Create a poster Disciplinary Act out the Easter story
Memories	Symbols	Resurrection	Christians	The but the Euster story

Computing—Year 1

In Spring A, learners will be introduced to early programming concepts. children will explore using individual commands, both with other pupils and as part of a computer program. They will identify what each command for the floor robot does, and use that knowledge to start predicting the outcome of programs. The unit is paced to ensure time is spent on all aspects of programming, and builds knowledge in a structured manner. Children are also introduced to the early stages of program design through the introduction of algorithms.

In Spring B, children are introduced to data and information. Labelling, grouping, and searching are important aspects of data and information. Searching is a common operation in many applications, and requires an understanding that to search data, it must have labels. This unit of work focuses on assigning data (images) with different labels in order to demonstrate how computers are able to group and present data.

Curriculum Objective		Prior Knowledge	Disciplinary knowledge	Substantive knowledge	Substantive knowledge			
Spring A NC1: Understand what algorithms are, how they are implemented as programs on digital devices, and that programs execute by following precise and unambiguous instructions NC2: create and debug simple programs NC3: use logical reasoning to predict the behaviour of simple programs NC5: recognise common uses of information technology beyond school Spring B NC4: use technology purposefully to create, organise, store, manipulate and retrieve digital content NC6: use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies.		Know what an iPad is. Know that technology can help us.	 Understand what algorithms are, how they are implemented as programs on digital devices, and that programs execute by following precise and unambiguous instructions Create and debug simple programs Use logical reasoning to predict the behaviour of simple programs Use technology purposefully to create, organise, store, manipulate, and retrieve digital content Recognise common uses of information technology beyond school 	 A Bee-Bot is a robot that can be programmed to move. A command is an order that can be given, Direction is the path something takes. A program is a set of instructions that a computer follows to do something. 	 An object is something that can be seen and touched. A label is a name applied to a group of things. A search is where we look for something. Properties are the characteristics we can use to describe something. 			
Buttons	<u>Directions</u>	Forwards and backwards	Four directions	Routes	Assessment Substantive knowledge Quiz on substantive knowledge Disciplinary knowledge Explain to someone how to move a floor robot			
outcome	instructions	precise	program	route				
Label and match	Group and count	Describe an object	Comparing groups	Answering questions	Assessment Substantive knowledge Quiz on substantive knowledge Disciplinary knowledge Explain to someone how to group data and answer questions on it			
groups	object	properties	different	record				

Computing—Year 2

In Spring A, children will develop algorithms for robots. This unit develops children's' understanding of instructions in sequences and the use of logical reasoning to predict outcomes. They will use given commands in different orders to investigate how the order affects the outcome. They will also learn about design in programming. Children will develop artwork and test it for use in a program. Finally, they will design algorithms and then test those algorithms as programs and debug them.

In Spring B, children will begin to understand what the term data means and how data can be collected in the form of a tally chart. They will learn the term 'attribute' and use this to help them organise data. They will then progress onto presenting data in the form of pictograms and finally block diagrams. Children will use the data presented to answer questions.

Curriculum Objective		Prior Knowledge	Disciplinary knowledge	Substantive knowledge	Substantive knowledge
Spring A NC1: Understand what algorithms are, how the devices, and that programs execute by following NC2: create and debug simple programs NC3: use logical reasoning to predict the behative spring B NC4: use technology purposefully to create, or digital content NC6: use technology safely and respectfully, kee where to go for help and support when they have internet or other online technologies.	precise and unambiguous instructions aviour of simple programs organise, store, manipulate and retrieve ping personal information private; identify	 Count singular ad groups of objects Record information such as how many objects are in a group Compare groups of objects verbally Evaluate the results with a partner 	 Explain how robots can be controlled Create a pictogram Evaluate the errors Create a tally chart Share the data found with a partner 	 Decomposition is the process of breaking down the task into chunks to create a algorithm. Debugging is the process of finding and fixing errors. 	 A pictogram is a type of chart that uses icons and images to represent data. Data is information collected Tally charts are drawn using 5 lines.
C	C I i litt	M I to the state of the state o		T D 1 1	
 Giving instructions Learners will follow instructions given to them and give instructions to others. Learners will combine several instructions into a sequence that can then be issued to another learner to complete. will think about how computers can only follow clear and unambiguous instructions. 	 Same but different Consider the importance of the order of instructions within a sequence They will create sequences using the same instructions in different orders. test these sequences to see how the different orders affect the outcome. 	 Making predictions use logical reasoning to make predictions. They will follow a program step by step and identify what the outcome will be 	 Mats and routes Learners will design, create, and test a mat for a floor robot. Pupils will design the code and algorithm. Learners will outline what their task is by identifying the starting and finishing points of a route 	 Break it down Break the task into chunks and create algorithms for each chunk. Find and fix errors in their algorithms and programs. 	Assessment Substantive knowledge Quiz on substantive knowledge Disciplinary knowledge
Precise	Sequence	Reasoning	Programming	Decomposition	Take a video of the robots moving two squares on the mats
 Counting and comparing The importance of organising data effectively for counting and comparing. Create their own tally charts to organise data. Compare totals in tally charts 	 Enter the data Create pictograms manually and then progress to creating them using a computer. Understand the advantages of using computers rather than manual methods. 	 Creating pictograms Develop an understanding of the importance of a effective data collection. Pupils will write a range of statements to describe their data that is collected. 	 What is an attribute? Group objects by attribute Tally objects using a common attribute and present the data in a form of pictogram. 	 Presenting information Understand they are other ways to present data. Share data with a partner and discuss their findings. 	•
Compare	Pictogram	Data	Attribute	Consent	Go explain the data the learners have recorded to the Year 1 class