Area of study	Reception (Communication and Language, Physical Development, Maths, Expressive Arts and Design)	Year 1	Year 2
Programming	• Listen to an adult or peer's instructions. • Follow an adult or peer's instructions. • Learn new vocabulary. • Use new vocabulary when talking to adults and peers. • Ask questions about the instructions being given by an adult or peer. • Articulate ideas and thoughts in well-formed sentences when giving instructions. • Use talk to help work out problems and organise thinking and activities, and to explain how things work and why they might happen.	• Give instructions for a friend to follow • Describe what happens when I press buttons • Press buttons in the correct order to make a simple program • Understand what an algorithm is • Predict what will happen for a short sequence of instructions • Begin to use software/apps to create patterns on a screen • Begin to correct mistakes in a programme (debug)	• Give instructions to a friend (forward, backward, turn) and physically follow their instructions • Tell a friend or an adult the order that I need to the actions in to make something happen and talk about this as an algorithm • Programme a robot or software to do a particular task using precise instructions • Look at an algorithm and tell a friend or an adult what will happen • Watch a programme execute and spot where it goes wrong so that it can be debugged • Understand how algorithms are implemented as programs on digital devices
Computer Hardware/Networks	• Learn new vocabulary. • Use new vocabulary when talking to adults and peers. • Articulate ideas and thoughts in well-formed sentences. • Develop their small motor skills so that they can use a range of tools competently, safely and confidently.	• Begin to understand the main parts of a computer • Begin to understand what sort of data can be saved on a computer	• Knows what different parts of a computer are • Begin to understand how the different parts of a computer work • Know what different types of data are stored on the computer

Data Handling	• Listen to an adult or peer's instructions. • Follow an adult or peer's instructions. • Learn new vocabulary. • Use new vocabulary when talking to adults and peers. • Ask questions about the instructions being given by an adult or peer. • Articulate ideas and thoughts in well-formed sentences when giving instructions. • Use talk to help work out problems and organise thinking and activities, and to explain how things work and why they might happen.	• Talk about the different ways in which information can be shown • Use technology to collect information including photos, video and sound • Begin to present information in different ways • Add information to a photograph	• Talk about the different ways technology is used to collect information including a camera or sound recorder • Make and save a chart or graph using the data I collect • Talk about the data that is shown in the graph
Multimedia	• Listen to an adult or peer's instructions. • Follow an adult or peer's instructions. • Learn new vocabulary. • Use new vocabulary when talking to adults and peers. • Ask questions about the instructions being given by an adult or peer. • Articulate ideas and thoughts in well-formed sentences when giving instructions. • Use talk to help work out problems and organise thinking and activities,	• Be creative with different technology tools • Use technology to create and present ideas • Use the keyboard on a device to enter text and begin to use capital letters • Save my work and retrieve it again	• Use technology to organise and present ideas in different ways • Use the keyboard on the device to add, delete, and space text for others to read including capital letters • Save and open files on devices

	and to explain how things work and why they might happen. • Count objects, actions and sounds. • Explore, use and refine a variety of artistic effects to express their ideas and feelings. • Create collaboratively, sharing ideas, resources and skills. • Listen attentively, move to and talk about music, expressing their feelings and responses.		
Internet Safety	• Understands the rules of online safety • Understands how to keep personal information to themselves • Understands that they need to tell an adult	• Keep my password private • Tell you what personal information is • Tell an adult if something worries me online • Follow the schools internet safety rules	• Explain why I need to keep my password and personal information private • Describe the things that happen online and understand that an adult must be told • Talk about why I should go online for a short amount of time • Know that not everyone is who they say they are on the internet • Know where to go for help when there is a concern about something that has been seen online
Using Technology	• Listen to an adult or peer's instructions. • Follow an adult or peer's instructions. • Learn new vocabulary. • Use new vocabulary when talking to adults and peers.	• Use technology safely and respectfully • Recognise ways we use technology in our classroom • Recognise ways that technology is used at home • Follow a link to a website • Begin to identify some of the benefits of using technology	• Use technology purposefully to create, organise, store, manipulate and retrieve digital content • Tell you why I use technology in the classroom • Tell you why I use technology in my home

	- Ask questions about the instructions being given by an adult or peer. - Articulate ideas and thoughts in well-formed sentences when giving instructions. - Use talk to help work out problems and organise thinking and activities, and to explain how things work and why they might happen. - Develop their small motor skills so that they can use a range of tools competently, safely and confidently. - Use their core muscle strength to achieve a good posture when sitting at a table using the computer.		- Identify benefits of using technology including finding information creating and communicating - Use search technologies to find a piece of information
Key Vocabulary	Computer, mouse, screen, keyboard, internet, staying safe.	Algorithm, debug, instructions, predict, programming, robot, treasure, celebrate, copyright, edit, greeting, keyboard, save, type, e-safety, mammal, permission, private, clip, film, instructions, recipe, video camera, audio book, microphone, recording, sound effects, talking book, character, e-book, illustration, traditional tale.	Algorithm, debug, instructions, predict, programming, robot, treasure, celebrate, copyright, edit, greeting, keyboard, save, type, e-safety, mammal, permission, private, clip, film, instructions, recipe, video camera, audio book, microphone, recording, sound effects, talking book, character, e-book, illustration, traditional tale.