

Computing – Cycle A

Subject	Key vocab.	Declarative knowledge	Procedural knowledge
Autumn 1 (A) Phase: EYFS	pop-up device tablet game information safety	<u>Dinosaurs</u> <ul style="list-style-type: none"> I know that some things should not be shared. I know what to do if something goes wrong. <i>[Technology]</i> 	<u>Dinosaurs</u> <ul style="list-style-type: none"> I can say what things we can share: my first name, some things I like, <i>[Technology]</i> I can what things we cannot share: my full name, where I live, my age, my phone number. <i>[Technology]</i> I can tell a grown-up if I am playing a game in a tablet and something strange pops up. <i>[Technology]</i>
Autumn 2 (A) Phase: EYFS	tablet game tool function	<u>The Solar System</u> <ul style="list-style-type: none"> I know how to use different age-appropriate software and games on a tablet. <i>[Technology]</i> 	<u>The Solar System</u> <ul style="list-style-type: none"> I can play sorting games. <i>[Technology]</i> can play spelling games. I can play matching games. <i>[Technology]</i> I can use painting software. <i>[Technology]</i> I can restart a game to play it again. <i>[Technology]</i>
Spring 1 (A) Phase: EYFS	beebot commands 'go'	<u>Traditional Tales</u> <ul style="list-style-type: none"> I know how to use a BeeBot. <i>[Technology]</i> 	<u>Traditional Tales</u> <ul style="list-style-type: none"> I can press some commands. <i>[Technology]</i> I can press 'go' to make the BeeBot move. <i>[Technology]</i>
Spring 2 (A) Phase: EYFS	beebot programme commands 'x' 'go' clear	<u>Spring Into Action</u> <ul style="list-style-type: none"> I know how to programme a BeeBot. <i>[Technology]</i> 	<u>Spring Into Action</u> <ul style="list-style-type: none"> I can press a set of commands into a BeeBpt. <i>[Technology]</i> I can use the 'x' command to clear a programme. <i>[Technology]</i> I can explore different programmes to send the BeeBot to the right place. <i>[Technology]</i>
Summer 1 (A) Phase: EYFS	data pictogram field tally column icon	<u>Healthy Living</u> <ul style="list-style-type: none"> I know how to collect information into a pictogram. <i>[Technology]</i> 	<u>Healthy Living</u> <ul style="list-style-type: none"> I can count the correct number in a field. <i>[Technology]</i> I can use 2Count to add the correct number of pictures to a column. <i>[Technology]</i> I can change the icons to match the subject. <i>[Technology]</i>
Summer 2 (A) Phase: EYFS	undo tool function fill effect colour brush size save	<u>People Who Help Us</u> <ul style="list-style-type: none"> I know how to use different functions and tools in a paint programme to enhance my pictures. <i>[Technology]</i> 	<u>People Who Help Us</u> <ul style="list-style-type: none"> I can use the 'fill' tool to colour my pictures. <i>[Technology]</i> I can use the 'effect' tool to add texture to my pictures. <i>[Technology]</i> I can use the 'undo' function to remove something I did wrong. <i>[Technology]</i> I can save my work into an online folder. <i>[Technology]</i>
Autumn 1 (A) Phase: Y1/2	Online safety report personal information appropriate Digital Footprint Sharing Email	<u>E-Safety and Basic Skills</u> <ul style="list-style-type: none"> I know how to log on to a programme. I know that not everyone is who they say they are on the internet. I know that if I see something online that I am unsure of I should tell an adult. 	<u>E-Safety and Basic Skills</u> <ul style="list-style-type: none"> I can explain why I need to keep my password and personal information private. I can describe the things that happen online that I must tell an adult about. I can talk about why I should only go online for a short amount of time. I can talk about why it's important to be kind and polite online and in real life.
Autumn 2 (A) Phase: Y1/2	Order Instructions algorithm debug Coding Variables Commands Remixing PRIMM: predict- run-investigate- modify-make	<u>Programming</u> <ul style="list-style-type: none"> I know that an algorithm is a set of instructions that are given in a particular order. I know that algorithms need to contain clear, specific instructions (such as 'forward 2') in order to work. I know how to debug software when the algorithm does not work. 	<u>Programming</u> <ul style="list-style-type: none"> I can give instructions to my friend using words such as: forward, backward and turn. I can follow my friend's instructions to move in a particular direction. I can tell you the order I need to do things in to make something happen. I can use an algorithm to program a robot or software to do a particular task.

Spring 1 (A) Phase: Y1/2	technology internet information research email Search Displayboard Internet	<u>Technology in our Lives</u> <ul style="list-style-type: none"> I know different types of technology that I use at school, at home and in the community. I know that there are different benefits of using technology such as finding information, creating and communicating. 	<u>Technology in our Lives</u> <ul style="list-style-type: none"> I can explain the ways that technology helps us at school, at home and in the community. I can talk about the differences between the internet and things in the physical world.
Spring 2 (A) Phase: Y1/2	technology internet information research website address search engine search link results	<u>Technology in our Lives</u> <ul style="list-style-type: none"> I know different types of technology that I use at school, at home and in the community. I know there are different benefits of using technology such as finding information, creating and communicating. I know that some websites are more reliable than others. 	<u>Technology in our Lives</u> <ul style="list-style-type: none"> I can explain the ways that technology helps us at school, at home and in the community. I can talk about the differences between the internet and things in the physical world. I can use links to websites to find information.
Summer 1 (A) Phase: Y1/2	data information database spreadsheet table block graph branching database Columns Rows Image Toolbox	<u>Handling Data</u> <ul style="list-style-type: none"> I know how technology can be used to collect information. I know some features of a branching database. 	<u>Handling Data</u> <ul style="list-style-type: none"> I can make and save a chart or graph using the data I collect. I can talk about the data that is shown in my chart or graph.
Summer 2 (A) Phase: Y1/2	Keyboard Space bar Keys Full stop Shift key Caps lock Save File Open	<u>Multimedia</u> <ul style="list-style-type: none"> I know that there are online tools that will help me to share my ideas with other people. I know how to type KS1 punctuation on a keyboard. I know how to reopen my work after I have saved it. 	<u>Multimedia</u> <ul style="list-style-type: none"> I can use technology to organise and present my ideas in different ways. I can use the keyboard on my device to add, delete and space text for others to read. I can save and open files on the device I use.
Autumn 1 (A) Phase: Y3/4	Identity Digital footprint Security Padlock Phishing Scam Identity theft Risk Malware Virus Plagiarism Screen-time Reporting Virus Cookies Copyright	<u>Year 3 - E-safety and basic skills</u> <ul style="list-style-type: none"> I know how to use technology safely and responsibly. I know how to recognise unacceptable behaviour and how to report it. I know how to log in and out correctly. I know how to save a file and retrieve it. <u>Year 4 - E-safety and basic skills</u> <ul style="list-style-type: none"> I know how to use technology safely and responsibly. I know how to recognise unacceptable behaviour and how to report it. I know how to log in and out correctly. I know how to save a file and retrieve it. 	<u>Year 3 - E-Safety and basic skills</u> <ul style="list-style-type: none"> I can talk about what makes a secure password and why they are important. I can protect my personal information when I do different things online. I can use the safety features of websites as well as reporting concerns to an adult. I can recognise websites and games appropriate for my age. <u>Year 4 - E-Safety and basic skills</u> <ul style="list-style-type: none"> I choose a secure password and talk about the ways I can protect myself and my friends from harm online. I use the safety features of websites as well as reporting concerns to an adult. I know that anything I post online can be seen by others and I choose websites and games that are appropriate for my age.
Autumn 2 (A) Phase: Y3/4	Code Program Remix Debug Variables Commands PRIMM: predict-run-investigate-modify-make Input Output Action Control Selection Event Algorithm	<u>Programming</u> <ul style="list-style-type: none"> I know what an algorithm is. I know how to debug an algorithm. I know how to create my own algorithm. 	<u>Programming</u> <ul style="list-style-type: none"> I can break an open ended problem up into smaller parts. I can put programming commands into a sequence to achieve a specific outcome. I keep testing my program and can recognise when I need to debug it. I can use repeat commands. I can describe the algorithm I will need for a simple task. I can detect a problem in an algorithm which could result in unsuccessful programming.

<p>Spring 1 (A)</p> <p>Phase: Y3/4</p>	<p>Function Keyboard Monitor Mouse Disk Network Card Graphics Card Motherboard Hard Drive</p> <p>Search Box Results Page Search terms Hyperlink Credibility Reliable True</p>	<p><u>Year 3 - Technology in our lives</u></p> <ul style="list-style-type: none"> • I know how to save work in different places. • I know how the internet works . • I know how to search the Internet safely. • I know how to communicate safely online. <p><u>Year 4 - Technology in our lives</u></p> <ul style="list-style-type: none"> • I know how to search the Internet safely and accurately. • I know how to check the reliability and ownership of information on the Internet. • I know how to create a hyperlink. 	<p><u>Year 3 - Technology in our lives</u></p> <ul style="list-style-type: none"> • I can save and retrieve work on the Internet, the school network or my own device. • I can talk about the parts of a computer. • I can tell you ways to communicate with others online. • I can describe the World Wide Web as the part of the Internet that contains websites. <p><u>Year 4 - Technology in our lives</u></p> <ul style="list-style-type: none"> • I can tell you whether a resource I am using is on the Internet, the school network or my own device. • I can identify key words to use when searching safely on the World Wide Web. • I think about the reliability of information I read on the World Wide Web. • I can tell you how to check who owns photos, text and clipart. • I can create a hyperlink to a resource on the World Wide Web.
<p>Spring 2 (A)</p> <p>Phase: Y3/4</p>	<p>Function Keyboard Monitor Mouse Disk Network Card Graphics Card Motherboard Hard Drive</p> <p>Search Box Results Page Search terms Hyperlink Credibility Reliable True</p>	<p><u>Year 3 - Technology in our lives</u></p> <ul style="list-style-type: none"> • I know how to save work in different places. • I know how the internet works. • I know how to search the Internet safely. • I know how to communicate safely online. <p><u>Year 4 - Technology in our lives</u></p> <ul style="list-style-type: none"> • I know how to search the Internet safely and accurately. • I know how to check the reliability and ownership of information on the Internet. • I know how to create a hyperlink. 	<p><u>Year 3 - Technology in our lives</u></p> <ul style="list-style-type: none"> • I can save and retrieve work on the Internet, the school network or my own device. • I can talk about the parts of a computer. • I can tell you ways to communicate with others online. • I can describe the World Wide Web as the part of the Internet that contains websites. • I can use search tools to find and use an appropriate website. • I think about whether I can use images that I find online in my own work. <p><u>Year 4 - Technology in our lives</u></p> <ul style="list-style-type: none"> • I can tell you whether a resource I am using is on the Internet, the school network or my own device. • I can identify key words to use when searching safely on the World Wide Web. • I think about the reliability of information I read on the World Wide Web. • I can tell you how to check who owns photos, text and clipart. • I can create a hyperlink to a resource on the World Wide Web.
<p>Summer 1 (A)</p> <p>Phase: Y3/4</p>	<p>Spreadsheet Line graphs Timer and spin button Formatting Cell Formulae Column Row Data Formula Wizard Average</p>	<p><u>Year 3 - Handling data</u></p> <ul style="list-style-type: none"> • I know how to organise data in different ways. • I know how to search a ready-made database to collect data. <p><u>Year 4 - Handling data</u></p> <ul style="list-style-type: none"> • I know how to organise data in different ways. • I know how to identify incorrect data. • I know how to choose the best way to present data. • I know how to use a data logger. 	<p><u>Year 3 - Handling data</u></p> <ul style="list-style-type: none"> • I can talk about the different ways data can be organised. • I can search a ready-made database to answer questions. • I can collect data help me answer a question. • I can make a branching database. <p><u>Year 4 - Handling data</u></p> <ul style="list-style-type: none"> • I can organise data in different ways. • I can collect data and identify where it could be inaccurate. • I can plan, create and search a database to answer questions and present data to my friends. • I can use a data logger to record and share my readings with my friends.

<p>Summer 2 (A) Phase: Y3/4</p>	<p>Font size Style Text Word Processor Formatting Insert Crop File Spell Check Share Post Online Upload Background Video Clip Animation</p>	<p><u>Year 3 - Multimedia</u></p> <ul style="list-style-type: none"> • I know how to use tools to create different effects. • I know how to combine text, graphics and sounds. • I know how to make changes to my work. • I know how to share my work online. <p><u>Year 4 - Multimedia</u></p> <ul style="list-style-type: none"> • I know how to create atmosphere using photos, video and sound • I know how to extend my ideas using new media • I know how to change my work to fit different purposes • I know how to improve my own and others work 	<p><u>Year 3 - Multimedia</u></p> <ul style="list-style-type: none"> • I can create different effects with different technology tools. • I can combine a mixture of text, graphics and sound to share my ideas and learning. • I can use appropriate keyboard commands to amend text on my device, including making use of a spellchecker. • I can evaluate my work and improve its effectiveness. • I can use an appropriate tool to share my work online. <p><u>Year 4 - Multimedia</u></p> <ul style="list-style-type: none"> • I can use photos, video and sound to create an atmosphere when presenting to different audiences. • I am confident to explore new media to extend what I can achieve. • I can change the appearance of text to increase its effectiveness. • I can create, modify and present documents for a particular purpose. • I can use a keyboard confidently and make use of a spellchecker to write and review my work. • I can use an appropriate tool to share my work and collaborate online. • I can give constructive feedback to my friends to help them improve their work and refine my own work.
<p>Autumn 1 (A) Phase: Y5/6</p>	<p>Digital Footprint Password PEGi rating Phishing Screen Time Spoof website Privacy Seals Risk User Personal information</p>	<p><u>E-Safety and basic skills</u></p> <ul style="list-style-type: none"> • I know what my personal log on and password are and how to log on. • I know which online games and sites are appropriate for my age. • I know how to keep my personal information safe and secure. • I know the safety and reporting features of major sites such as Facebook, Google and Youtube. • I know how to use a keyboard effectively to type. • I know how to save images from the internet. • I know how to save documents in relevant folders. • I know how to save images taken on a variety of hardware using different software. • I know that anything I post online can be seen and may affect others. 	<p><u>E-Safety and basic skills</u></p> <ul style="list-style-type: none"> • I can protect my password and other personal information. • I can explain the consequences of sharing too much about myself online. • I can support my friends to protect themselves and make good choices online, including reporting concerns to an adult. • I can explain the consequences of spending too much time online or on a game. • I can explain the consequences to myself and others of not communicating kindly and respectfully. • I can protect my computer or device from harm on the Internet.
<p>Autumn 2 (A) Phase: Y5/6</p>	<p>Action Alert Algorithm Bug Code Design Command Control Debug/ Debugging Event Function Input Output Object Sequence Selection Tabs Variable</p>	<p><u>Programming</u></p> <ul style="list-style-type: none"> • I know what a programme is. • I know what an algorithm is. • I know how to design a program with an algorithm. • I know what inputs, outputs and variables are. • I know what the term 'debug' means. • I know how to use the terms 'if' and 'then' in a program. 	<p><u>Programming</u></p> <ul style="list-style-type: none"> • I can decompose a problem into smaller parts to design an algorithm for a specific outcome and use this to write a program for a device or onscreen activity. • I can use a variable to increase programming possibilities. • I can change an input to a program to achieve a different output. • I can use 'if' and 'then' commands to select an action. • I can refine a procedure using repeat commands to improve a program. • I can talk about how a computer model can provide information about a physical system. • I can use logical reasoning to detect and debug mistakes in a program. • I use logical thinking, imagination and creativity to extend a program.
<p>Spring 1 (A) Phase: Y5/6</p>	<p>Internet World Wide Web Network Local Area Network Server Router Network Cables Wireless</p>	<p><u>Technology in our lives</u></p> <ul style="list-style-type: none"> • I know how to log on. • I know how to use a search engine. • I know the difference between the Internet and the World Wide Web. • I know what copyright means. • I know how to stay safe and be responsible online. • I know the names of modern devices used in day to day life. • I know what bias and reliable means. • I know how to identify a reliable search engine. 	<p><u>Technology in our lives</u></p> <ul style="list-style-type: none"> • I can tell you the Internet services I need to use for different purposes. • I can describe how information is transported on the Internet • I can select an appropriate tool to communicate and collaborate online. • I can talk about the way search results are selected and ranked. • I can check the reliability of a website. • I can tell you about copyright and acknowledge the sources of information that I find online.

<p>Spring 2 (A) Phase: Y5/6</p>	<p>Average Advance Mode Copy and Paste Columns Cells Charts Formula Formula Wizard Rows Spreadsheet Timer</p>	<p><u>Handling Data</u></p> <ul style="list-style-type: none"> • I know what data means • I know what a database is • I know what the features of a database are • I know how to search a database • I know how to set up a database • I know how to order/sequence data from a database • I know what makes a database successful 	<p><u>Handling Data</u></p> <ul style="list-style-type: none"> • I can plan the process needed to investigate the world around me. • I can select the most effective tool to collect data for my investigation. • I can check the data I collect for accuracy and plausibility. • I can interpret the data I collect. • I can present the data I collect in an appropriate way. • I can use the skills I have developed to interrogate a database.
<p>Summer 1 (A) Phase: Y5/6</p>		<p>Opportunity to continue after short half term/re visit gaps identified</p>	
<p>Summer 2 (A) Phase: Y5/6</p>	<p>Concept Map Debug Sprite Function Software Formatting Animation Graphic Video Insert</p>	<p><u>Multimedia</u></p> <ul style="list-style-type: none"> • I know the software that can be used to create multimedia: e.g. word, powerpoint, media player • I know what an animation is • I know what instructions are/set of steps to create an animation • I know how to select suitable images • I know the importance of audience in video design. • I know how to save 	<p><u>Multimedia</u></p> <ul style="list-style-type: none"> • I can talk about audience, atmosphere and structure when planning a particular outcome. • I can confidently identify the potential of unfamiliar technology to increase my creativity. • I can combine a range of media, recognising the contribution of each to achieve a particular outcome. • I can tell you why I select a particular online tool for a specific purpose. • I can be digitally discerning when evaluating the effectiveness of my own work and the work of others

Computing – Cycle B

Subject	Key vocab.	Declarative knowledge	Procedural knowledge
Autumn 1 (B) Phase: EYFS	pop-up device tablet game information safety	<u>Fairy Tales</u> <ul style="list-style-type: none"> I know that some things should not be shared. I know what to do if something goes wrong. <i>[Technology]</i> 	<u>Fairy Tales</u> <ul style="list-style-type: none"> I can say what things we can share: my first name, some things I like, <i>[Technology]</i> I can what things we cannot share: my full name, where I live, my age, my phone number. <i>[Technology]</i> I can tell a grown-up if I am playing a game in a tablet and something strange pops up. <i>[Technology]</i>
Autumn 2 (B) Phase: EYFS	tablet game tool function	<u>Under The Sea</u> <ul style="list-style-type: none"> I know how to use different age-appropriate software and games on a tablet. <i>[Technology]</i> 	<u>Under The Sea</u> <ul style="list-style-type: none"> I can play sorting games. <i>[Technology]</i> can play spelling games. I can play matching games. <i>[Technology]</i> I can use painting software. <i>[Technology]</i> I can restart a game to play it again. <i>[Technology]</i>
Spring 1 (B) Phase: EYFS	beebot commands 'go'	<u>Materials That We Use</u> <ul style="list-style-type: none"> I know how to use a BeeBot. <i>[Technology]</i> 	<u>Materials That We Use</u> <ul style="list-style-type: none"> I can press some commands. <i>[Technology]</i> I can press 'go' to make the BeeBot move. <i>[Technology]</i>
Spring 2 (B) Phase: EYFS	beebot programme commands 'x' 'go' clear	<u>The Gift of Charity</u> <ul style="list-style-type: none"> I know how to programme a BeeBot. <i>[Technology]</i> 	<u>The Gift of Charity</u> <ul style="list-style-type: none"> I can press a set of commands into a BeeBpt. <i>[Technology]</i> I can use the 'x' command to clear a programme. <i>[Technology]</i> I can explore different programmes to send the BeeBot to the right place. <i>[Technology]</i>
Summer 1 (B) Phase: EYFS	data pictogram field tally column icon	<u>Julia Donaldson vs Eric Carle</u> <ul style="list-style-type: none"> I know how to collect information into a pictogram. <i>[Technology]</i> 	<u>Julia Donaldson vs Eric Carle</u> <ul style="list-style-type: none"> I can count the correct number in a field. <i>[Technology]</i> I can use 2Count to add the correct number of pictures to a column. <i>[Technology]</i> I can change the icons to match the subject. <i>[Technology]</i>
Summer 2 (B) Phase: EYFS	undo tool function fill effect colour brush size save	<u>Healthy Bodes, Healthy Minds</u> <ul style="list-style-type: none"> I know how to use different functions and tools in a paint programme to enhance my pictures. <i>[Technology]</i> 	<u>Healthy Bodes, Healthy Minds</u> <ul style="list-style-type: none"> I can use the 'fill' tool to colour my pictures. <i>[Technology]</i> I can use the 'effect' tool to add texture to my pictures. <i>[Technology]</i> I can use the 'undo' function to remove something I did wrong. <i>[Technology]</i> I can save my work into an online folder. <i>[Technology]</i>
Autumn 1 (B) Phase: Y1/2	Online safety report personal information appropriate Digital Footprint Sharing Email	<u>E-Safety and Basic Skills</u> <ul style="list-style-type: none"> I know how to log on to a programme. I know that not everyone is who they say they are on the internet. I know that if I see something online that I am unsure of I should tell an adult. 	<u>E-Safety and Basic Skills</u> <ul style="list-style-type: none"> I can explain why I need to keep my password and personal information private. I can describe the things that happen online that I must tell an adult about. I can talk about why I should only go online for a short amount of time. I can talk about why it's important to be kind and polite online and in real life.
Autumn 2 (B) Phase: Y1/2	Order Instructions algorithm debug Coding Variables Commands Remixing PRIMM: predict- run-investigate- modify-make	<u>Programming</u> <ul style="list-style-type: none"> I know that an algorithm is a set of instructions that are given in a particular order. I know that algorithms need to contain clear, specific instructions (such as 'forward 2') in order to work. I know how to debug software when the algorithm does not work. 	<u>Programming</u> <ul style="list-style-type: none"> I can give instructions to my friend using words such as: forward, backward and turn. I can follow my friend's instructions to move in a particular direction. I can tell you the order I need to do things in to make something happen. I can use an algorithm to program a robot or software to do a particular task.

Spring 1 (B) Phase: Y1/2	technology internet information research email Search Displayboard Internet	<u>Technology in our Lives</u> <ul style="list-style-type: none"> I know different types of technology that I use at school, at home and in the community. I know that there are different benefits of using technology such as finding information, creating and communicating. 	<u>Technology in our Lives</u> <ul style="list-style-type: none"> I can explain the ways that technology helps us at school, at home and in the community. I can talk about the differences between the internet and things in the physical world.
Spring 2 (B) Phase: Y1/2	technology internet information research website address search engine search link results	<u>Technology in our Lives</u> <ul style="list-style-type: none"> I know different types of technology that I use at school, at home and in the community. I know there are different benefits of using technology such as finding information, creating and communicating. I know that some websites are more reliable than others. 	<u>Technology in our Lives</u> <ul style="list-style-type: none"> I can explain the ways that technology helps us at school, at home and in the community. I can talk about the differences between the internet and things in the physical world. I can use links to websites to find information.
Summer 1 (B) Phase: Y1/2	data information database spreadsheet table block graph branching database Columns Rows Image Toolbox	<u>Handling Data</u> <ul style="list-style-type: none"> I know how technology can be used to collect information. I know some features of a branching database. 	<u>Handling Data</u> <ul style="list-style-type: none"> I can make and save a chart or graph using the data I collect. I can talk about the data that is shown in my chart or graph.
Summer 2 (B) Phase: Y1/2	Keyboard Space bar Keys Full stop Shift key Caps lock Save File Open	<u>Multimedia</u> <ul style="list-style-type: none"> I know that there are online tools that will help me to share my ideas with other people. I know how to type KS1 punctuation on a keyboard. I know how to reopen my work after I have saved it. 	<u>Multimedia</u> <ul style="list-style-type: none"> I can use technology to organise and present my ideas in different ways. I can use the keyboard on my device to add, delete and space text for others to read. I can save and open files on the device I use.
Autumn 1 (B) Phase: Y3/4	Identity Digital footprint Security Padlock Phishing Scam Identity theft Risk Malware Virus Plagiarism Screen-time Reporting Virus Cookies Copyright	<u>Year 3 - E-safety and basic skills</u> <ul style="list-style-type: none"> I know how to use technology safely and responsibly. I know how to recognise unacceptable behaviour and how to report it. I know how to log in and out correctly. I know how to save a file and retrieve it. <u>Year 4 - E-safety and basic skills</u> <ul style="list-style-type: none"> I know how to use technology safely and responsibly. I know how to recognise unacceptable behaviour and how to report it. I know how to log in and out correctly. I know how to save a file and retrieve it. 	<u>Year 3 - E-Safety and basic skills</u> <ul style="list-style-type: none"> I can talk about what makes a secure password and why they are important. I can protect my personal information when I do different things online. I can use the safety features of websites as well as reporting concerns to an adult. I can recognise websites and games appropriate for my age. <u>Year 4 - E-Safety and basic skills</u> <ul style="list-style-type: none"> I choose a secure password and talk about the ways I can protect myself and my friends from harm online. I use the safety features of websites as well as reporting concerns to an adult. I know that anything I post online can be seen by others and I choose websites and games that are appropriate for my age.
Autumn 2 (B) Phase: Y3/4	Code Program Remix Debug Variables Commands PRIMM: predict-run-investigate-modify-make Input Output Action Control Selection Event Algorithm	<u>Programming</u> <ul style="list-style-type: none"> I know what an algorithm is. I know how to debug an algorithm. I know how to create my own algorithm. 	<u>Programming</u> <ul style="list-style-type: none"> I can break an open ended problem up into smaller parts. I can put programming commands into a sequence to achieve a specific outcome. I keep testing my program and can recognise when I need to debug it. I can use repeat commands. I can describe the algorithm I will need for a simple task. I can detect a problem in an algorithm which could result in unsuccessful programming.

<p>Spring 1 (B) Phase: Y3/4</p>	<p>Function Keyboard Monitor Mouse Disk Network Card Graphics Card Motherboard Hard Drive</p> <p>Search Box Results Page Search terms Hyperlink Credibility Reliable True</p>	<p><u>Year 3 - Technology in our lives</u></p> <ul style="list-style-type: none"> • I know how to save work in different places. • I know how the internet works . • I know how to search the Internet safely. • I know how to communicate safely online. <p><u>Year 4 - Technology in our lives</u></p> <ul style="list-style-type: none"> • I know how to search the Internet safely and accurately. • I know how to check the reliability and ownership of information on the Internet. • I know how to create a hyperlink. 	<p><u>Year 3 - Technology in our lives</u></p> <ul style="list-style-type: none"> • I can save and retrieve work on the Internet, the school network or my own device. • I can talk about the parts of a computer. • I can tell you ways to communicate with others online. • I can describe the World Wide Web as the part of the Internet that contains websites. <p><u>Year 4 - Technology in our lives</u></p> <ul style="list-style-type: none"> • I can tell you whether a resource I am using is on the Internet, the school network or my own device. • I can identify key words to use when searching safely on the World Wide Web. • I think about the reliability of information I read on the World Wide Web. • I can tell you how to check who owns photos, text and clipart. • I can create a hyperlink to a resource on the World Wide Web.
<p>Spring 2 (B) Phase: Y3/4</p>	<p>Function Keyboard Monitor Mouse Disk Network Card Graphics Card Motherboard Hard Drive</p> <p>Search Box Results Page Search terms Hyperlink Credibility Reliable True</p>	<p><u>Year 3 - Technology in our lives</u></p> <ul style="list-style-type: none"> • I know how to save work in different places. • I know how the internet works. • I know how to search the Internet safely. • I know how to communicate safely online. <p><u>Year 4 - Technology in our lives</u></p> <ul style="list-style-type: none"> • I know how to search the Internet safely and accurately. • I know how to check the reliability and ownership of information on the Internet. • I know how to create a hyperlink. 	<p><u>Year 3 - Technology in our lives</u></p> <ul style="list-style-type: none"> • I can save and retrieve work on the Internet, the school network or my own device. • I can talk about the parts of a computer. • I can tell you ways to communicate with others online. • I can describe the World Wide Web as the part of the Internet that contains websites. • I can use search tools to find and use an appropriate website. • I think about whether I can use images that I find online in my own work. <p><u>Year 4 - Technology in our lives</u></p> <ul style="list-style-type: none"> • I can tell you whether a resource I am using is on the Internet, the school network or my own device. • I can identify key words to use when searching safely on the World Wide Web. • I think about the reliability of information I read on the World Wide Web. • I can tell you how to check who owns photos, text and clipart. • I can create a hyperlink to a resource on the World Wide Web.
<p>Summer 1 (B) Phase: Y3/4</p>	<p>Spreadsheet Line graphs Timer and spin button Formatting Cell Formulae Column Row Data Formula Wizard Average</p>	<p><u>Year 3 - Handling data</u></p> <ul style="list-style-type: none"> • I know how to organise data in different ways. • I know how to search a ready-made database to collect data. <p><u>Year 4 - Handling data</u></p> <ul style="list-style-type: none"> • I know how to organise data in different ways. • I know how to identify incorrect data. • I know how to choose the best way to present data. • I know how to use a data logger. 	<p><u>Year 3 - Handling data</u></p> <ul style="list-style-type: none"> • I can talk about the different ways data can be organised. • I can search a ready-made database to answer questions. • I can collect data help me answer a question. • I can make a branching database. <p><u>Year 4 - Handling data</u></p> <ul style="list-style-type: none"> • I can organise data in different ways. • I can collect data and identify where it could be inaccurate. • I can plan, create and search a database to answer questions and present data to my friends. • I can use a data logger to record and share my readings with my friends.
<p>Summer 2 (B) Phase: Y3/4</p>	<p>Font size Style Text Word Processor Formatting Insert Crop File Spell Check Share Post Online Upload Background Video Clip</p>	<p><u>Year 3 - Multimedia</u></p> <ul style="list-style-type: none"> • I know how to use tools to create different effects. • I know how to combine text, graphics and sounds. • I know how to make changes to my work. • I know how to share my work online. <p><u>Year 4 - Multimedia</u></p>	<p><u>Year 3 - Multimedia</u></p> <ul style="list-style-type: none"> • I can create different effects with different technology tools. • I can combine a mixture of text, graphics and sound to share my ideas and learning. • I can use appropriate keyboard commands to amend text on my device, including making use of a spellchecker. • I can evaluate my work and improve its effectiveness. • I can use an appropriate tool to share my work online. <p><u>Year 4 - Multimedia</u></p>

	Animation	<ul style="list-style-type: none"> I know how to create atmosphere using photos, video and sound I know how to extend my ideas using new media I know how to change my work to fit different purposes I know how to improve my own and others work 	<ul style="list-style-type: none"> I can use photos, video and sound to create an atmosphere when presenting to different audiences. I am confident to explore new media to extend what I can achieve. I can change the appearance of text to increase its effectiveness. I can create, modify and present documents for a particular purpose. I can use a keyboard confidently and make use of a spellchecker to write and review my work. I can use an appropriate tool to share my work and collaborate online. I can give constructive feedback to my friends to help them improve their work and refine my own work.
Autumn 1 (B) Phase: Y5/6	Digital Footprint Password PEGi rating Phishing Screen Time Spoof website Privacy Seals Risk User Personal information	<u>E-Safety and basic skills</u> <ul style="list-style-type: none"> I know what my personal log on and password are and how to log on. I know which online games and sites are appropriate for my age. I know how to keep my personal information safe and secure. I know the safety and reporting features of major sites such as Facebook, Google and Youtube. I know how to use a keyboard effectively to type. I know how to save images from the internet. I know how to save documents in relevant folders. I know how to save images taken on a variety of hardware using different software. I know that anything I post online can be seen and may affect others. 	<u>E-Safety and basic skills</u> <ul style="list-style-type: none"> I can protect my password and other personal information. I can explain the consequences of sharing too much about myself online. I can support my friends to protect themselves and make good choices online, including reporting concerns to an adult. I can explain the consequences of spending too much time online or on a game. I can explain the consequences to myself and others of not communicating kindly and respectfully. I can protect my computer or device from harm on the Internet.
Autumn 2 (B) Phase: Y5/6	Action Alert Algorithm Bug Code Design Command Control Debug/ Debugging Event Function Input Output Object Sequence Selection Tabs Variable	<u>Programming</u> <ul style="list-style-type: none"> I know what a programme is. I know what an algorithm is. I know how to design a program with an algorithm. I know what inputs, outputs and variables are. I know what the term 'debug' means. I know how to use the terms 'if' and 'then' in a program. 	<u>Programming</u> <ul style="list-style-type: none"> I can decompose a problem into smaller parts to design an algorithm for a specific outcome and use this to write a program for a device or onscreen activity. I can use a variable to increase programming possibilities. I can change an input to a program to achieve a different output. I can use 'if' and 'then' commands to select an action. I can refine a procedure using repeat commands to improve a program. I can talk about how a computer model can provide information about a physical system. I can use logical reasoning to detect and debug mistakes in a program. I use logical thinking, imagination and creativity to extend a program.
Spring 1 (B) Phase: Y5/6	Internet World Wide Web Network Local Area Network Server Router Network Cables Wireless	<u>Technology in our lives</u> <ul style="list-style-type: none"> I know how to log on. I know how to use a search engine. I know the difference between the Internet and the World Wide Web. I know what copyright means. I know how to stay safe and be responsible online. I know the names of modern devices used in day to day life. I know what bias and reliable means. I know how to identify a reliable search engine. 	<u>Technology in our lives</u> <ul style="list-style-type: none"> I can tell you the Internet services I need to use for different purposes. I can describe how information is transported on the Internet I can select an appropriate tool to communicate and collaborate online. I can talk about the way search results are selected and ranked. I can check the reliability of a website. I can tell you about copyright and acknowledge the sources of information that I find online.
Spring 2 (B) Phase: Y5/6	Average Advance Mode Copy and Paste Columns Cells Charts Formula Formula Wizard Rows Spreadsheet Timer	<u>Handling Data</u> <ul style="list-style-type: none"> I know what data means I know what a database is I know what the features of a database are I know how to search a database I know how to set up a database I know how to order/sequence data from a database I know what makes a database successful 	<u>Handling Data</u> <ul style="list-style-type: none"> I can plan the process needed to investigate the world around me. I can select the most effective tool to collect data for my investigation. I can check the data I collect for accuracy and plausibility. I can interpret the data I collect. I can present the data I collect in an appropriate way. I can use the skills I have developed to interrogate a database.

<p>Summer 1 (B) Phase: Y5/6</p>		<p>Opportunity to continue after short half term/re visit gaps identified</p>	
<p>Summer 2 (B) Phase: Y5/6</p>	<p>Concept Map Debug Sprite Function Software Formatting Animation Graphic Video Insert</p>	<p><u>Multimedia</u></p> <ul style="list-style-type: none"> • I know the software that can be used to create multimedia: e.g. word, powerpoint, media player • I know what an animation is • I know what instructions are/set of steps to create an animation • I know how to select suitable images • I know the importance of audience in video design. • I know how to save 	<p><u>Multimedia</u></p> <ul style="list-style-type: none"> • I can talk about audience, atmosphere and structure when planning a particular outcome. • I can confidently identify the potential of unfamiliar technology to increase my creativity. • I can combine a range of media, recognising the contribution of each to achieve a particular outcome. • I can tell you why I select a particular online tool for a specific purpose. • I can be digitally discerning when evaluating the effectiveness of my own work and the work of others