	Computing Overview		
	Autumn	Spring	Summer
EYFS	<ul> <li>Personal, Social and Emotional Development (PSED)</li> <li>I can show resilience and perseverance in the face of a challenge.</li> <li>I know and talk about the different factors that support my overall health and wellbeing: -sensible amounts of 'screen time'.</li> <li>Physical Development</li> <li>I can develop their small motor skills so that I can use a range of tools competently, safely and confidently.</li> <li>Expressive Arts and Design</li> <li>I can explore, use and refine a variety of artistic effects to express my ideas and feelings.</li> </ul>		<ul> <li>PSED ELG</li> <li>I can be confident to try new activities and show independence, resilience and perseverance in the face of challenge.</li> <li>I can explain the reasons for rules, know right from wrong and try to behave accordingly.</li> <li>Expressive Arts and Design ELG</li> <li>I can safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function.</li> </ul>
Year 1	<ul> <li>E-Safety</li> <li>I can use technology safely and respectfully.</li> <li>I can say what information is personal and should not be shared online, with support.</li> <li>I can understand that I should tell an adult if I see something online that is inappropriate or hurtful.</li> <li>Multimedia</li> <li>I can type using a keyboard.</li> <li>I can use a camera or recording device, with support.</li> <li>I can use a sound recorder or on screen recorder to collect and store information as sound.</li> <li>I can produce text on screen and make changes to make it clear.</li> <li>I can use a mouse/trackpad to move and place items accurately on a screen.</li> <li>I can use technology purposefully to create, organise, store, manipulate and retrieve work, with support.</li> </ul>	Programming I can recognise common uses of information technology beyond school. I can program a bot by giving single commands with an immediate outcome. I can use the appropriate keys or commands to make a virtual or floor robot go forward, backward, left and right. Data/Graphing I can take a screenshot. I can use a suitable on-screen program to represent information with pictures. I can use technology purposefully to create, organise, store, manipulate and retrieve digital content. I can use a graph presented on screen to answer questions. I can save and retrieve work, with support.	Paint/Draw/Photo Editing         I can use a mouse/trackpad to move and place items accurately on a screen.         I can take a screenshot.         I can use a camera or recording device, with support.         I can use a camera or recording device, with support.         I can use technology purposefully to create, organise, store, manipulate and retrieve digital content.         I can use a range of tools purposefully to create and alter the appearance of an image.         I can save and retrieve work, with support.         I can take a screenshot.         I can use a mouse/trackpad to move and place items accurately on a screen.         I can take a screenshot.         I can use a mouse/trackpad to move and place items accurately on a screen.         I can type using a keyboard.         I can ontrol a resource to access information.         I can use a camera or recording device, with support.         I can use a sound recorder or on screen recorder to collect and store information as sound.         I can use technology purposefully to create, organise, store, manipulate and retrieve digital content.         I can use a suitable on-screen program to represent information with pictures.

			I can save and retrieve work, with support.
Year 2	<ul> <li>E.Safety and Internet Use</li> <li>I can follow and understand school rules for staying safe online.</li> <li>I can say what information is personal and should not be shared online, with support.</li> <li>I can enter data into a computer/simulation game.</li> <li>I can navigate a website using links. I can find a website by following links set up by the teacher, by using</li> <li>Favourites or by typing into the address bar.</li> <li>I can use a search engine to search for given information to answer questions, sorting by text, pictures, sound and video.</li> <li>Mond Processing</li> <li>I can save, print and retrieve work with support.</li> <li>Add and edit text, considering style, colour and layout of font.</li> <li>I can make use of basic editing skills e.g. shift key and Caps Lock for uppercase, question marks and spaces after punctuation.</li> <li>Monto Ley Mond Ley Move 2 steps etc.)</li> <li>I can give control devices instructions that contain numerical data (e.g. move 2 steps etc.)</li> <li>I can program a 'bot to follow a pre-planned sequence by giving single commands with an immediate outcome.</li> </ul>	<text><text><section-header><text><text></text></text></section-header></text></text>	<ul> <li>Multimedia – Sound</li> <li>I can create short musical phrases to suit a purpose, focusing on types of sound and/or rhythm using digital technology.</li> <li>I can select and record musical phrases, sound-effects or voice-overs to enhance multimedia work.</li> <li>Internet Use and E-Safety</li> <li>I can make digital comments as an individual or as a class on other people's work. Be involved in the process of sharing work to the school VLE as a small group.</li> <li>Databases/Graphing</li> <li>I can enter data into graphing software and choose the type of graph that is most appropriate to present data.</li> <li>I can search a pre-prepared database as part of a group, constructing questions and suggesting plausible answers.</li> <li>I can perform sorting and grouping activities to find answers to questions.</li> <li>Control &amp; Programming</li> <li>I can predict a sequence of instructions, record it by sequencing cards or using an agreed set of symbols, and test the sequence, amending if necessary.</li> </ul>
Year 3	Online communication and E Safety Word Processing (Writing Stone Age information on Word) I can work within the internet safety rules, understand why they are in place and abide by them. I can explain how to keep safe and the importance of being polite online.	Paint/Draw/Photo editing/Animation Word processing (Filming a story of Traction Man) I can use editing tools in a paint package for a specific purpose. I can build up images by selecting, copying and pasting within the image.	Internet Research and Sound/Podcast/Composition E-safety Word Processing Photo Editing (Use online encyclopedia and research to make podcast about plastics)

	I can save work in a way that means it is easy to remember and retrieve. I can use font sizes and effects appropriately and text boxes, columns, borders, WordArt. I can begin to use more than two fingers to enter text. Word Processing and Multimedia Online communication Internet Research (Make a presentation about Lighthouses after our trip to Leasowe Lighthouse.) I can independently select and import graphics and sounds from digital cameras and tablet devices, graphics packages, shared areas and the Internet and combine with text. I can use font sizes and effects appropriately and text boxes, columns, borders, WordArt. I can cut, copy and paste between applications and use delete, insert and replace. I can use spell check. I can begin to use more than two fingers to enter text. I can begin to upload some work independently to the drive. I can work within the internet safety rules, understand why they are in place and abide by them.	I can sequence still images and video and use simple editing techniques to create a presentation. I can begin to upload some work independently to the drive. I can work within the internet safety rules, understand why they are in place and abide by them. I can use font sizes and effects appropriately and text boxes, columns, borders, WordArt. I can cut, copy and paste between applications and use delete, insert and replace. I can use spell checker. I can use spell checker. I can begin to use more than two fingers to enter text. <b>Programming and Control</b> <b>Internet Safety</b> <b>Animation</b> I can plan and enter a sequence of instructions for a 'robot' to achieve specific outcomes. I can debug sequences where necessary. I can use 'repeat' to achieve specific solutions to tasks. I can begin to use jif', 'when' and 'else' to solve specific problems. I can use go degree and 45 degree turns I can sequence still images and video and use simple editing techniques to create a presentation. (Alex the robot app for maps) I can begin to upload some work independently to the drive. I can work within the internet safety rules, understand why they are in place and abide by them.	Use a range of techniques to navigate a given site. Develop key questions to search for specific information to answer a problem. Use music software to organise and reorganise sounds. Locate, record, save and retrieve sounds in multimedia software. Begin to layer sounds using music composition software. I can work within the internet safety rules, understand why they are in place and abide by them. Spreadsheets, Modelling, Simulations and Data logging. Database and Graphing. (I can use data logger 2 graph to make a bar chart.) I can collect information with a data logger/recorder in real time. I can interpret graphs created by a data logger or information from a datalogger and make predictions. I can begin to upload some work independently to the drive. I can work within the internet safety rules, understand why they are in place and abide by them. Control E safety Music curriculum to do Incredibox to combine and layer various musical beats.) I can use datas. I can locate, record, save and retrieve sounds in multimedia software. I can begin to upload some work independently to the drive. I can begin to layer sounds using music composition software. I can begin to layer sounds using music composition software. I can begin to upload some work independently to the drive. (Make a Viking Village) Spreadsheets
Year 4	E-safety I understand and I can talk about how to use the Internet safely. I know that the internet has potential dangers and I can explain how to keep yourself safe online. Music composition I can layer sounds using music composition software.	Paint/Draw/Photo editing/Animation/Video I can import a photograph, explore the effects which can be created and use a range of visual effects such as filters, hues and painting over photographs to give different effects. I can sequence and edit video footage and still images once transferred from a digital camera to computer.	<b>Spreadsheets</b> I can identify the key features of a spreadsheets (rows, columns and cells) I can reference cells in a spreadsheet. I understand that spreadsheets perform calculations. I can enter data into a spreadsheet, change data and observe changes in results.

	Evaluate and re-record sound recordings where appropriate. <b>Word processing</b> I can evaluate a range of electronic multimedia appropriate to task e.g. website, photostory, leaflet and recognise key features of layout, design and presentation. I can plan the structure and layout of a document/presentation, with support. When typing, I can begin to hold two hands over different halves of the keyboard and use more than two fingers to enter text. <b>Database</b> I can understand that 'yes/no' questions can be used to divide a set of objects into subsets and that a sequence of 'yes/no' questions can identify an object. I can create and use a branching database to organise, re-organise and analyse information. <b>Internet Research</b> I can understand that content on the internet can be located efficiently but is not always relevant. I can use keywords for effective Internet searches. I can select relevant information (pictures, text, sound and video) to use in other software.	I can add text, sound effects and other graphic effects to video. I can create a stop-frame animation using a camera with built-in stop motion software or an on-screen stop animation package. I can evaluate and improve digital work with a view to audience and purpose. <b>Control and Programming</b> I can use the 'repeat' and 'repeat until' command/block to program a 'bot more efficiently. I know that groups of instructions can be named as a procedure. I can use and change a pre-written procedure. I know that procedures can call on other procedures. I can begin to predict, program, test and amend longer sequences of linked instructions to achieve an intended objective.	I understand that computing can create graphs for different purposes; some are more appropriate and easier to read than others. I can enter data into a graphing package and use it to create a range of graphs, and to interpret data. <b>Online communication</b> I can upload work to a learning platform and know that it is important to consider the quality of work before posting to be seen by others. I can use at least two online communication methods (e.g. online discussion, surveys, quizzes, blogs, wikis, shared online folders, web quests) through the Learning Platform in topic work. I can use the school VLE to give useful and polite feedback to others on their work. I understand that the school's Learning Platform is a safe enclosed environment, but it is important to keep passwords and other personal information secure.
Year 5	Internet Safety Coding Internet Research Online Communication I can search the internet for specific information using tools such as Google Advanced Search (Boolean searches). I can skim read and sift information found online. I can check information for accuracy. I can identify irrelevant, biased, implausible and inappropriate information. I can use hyperlinks to trail an idea.	Internet Safety Coding Spreadsheets I can understand what variables and procedures are in real life and I can create them within a computer program to store and retrieve data. I can think logically that when 'x' happens 'y' is the result and show this using code, flowcharts, diagrams or explanations. Internet Safety Coding	Internet Safety Coding Photo/Video Editing I can select, copy and paste within and between photographs. I can explore "airbrush" techniques to improve photographs, such as used in magazines with celebrities. I can use different filming techniques and camera angles e.g. zoom, panning, wide shot etc. to create different mood/perspective. I can plan a video or animation by drawing a storyboard.

	Loop use a range of search angines and select the most		I can film, create, edit and refine to ensure quality;
	I can use a range of search engines and select the most appropriate based on the tools they provide (e.g. Google or	Graphing	present to an audience.
	Bing).	I can identify a problem which can be solved by	
	I can use information from the internet to make notes and	collecting data and to identify which data to collect.	
	present in a form of their choosing, without using	I can make predictions for this investigation and understand how to make it a fair test.	Internet Safety
	copied/pasted text.	I can carry out the investigation, ensuring efficiency and	Coding
	I can save media from the internet to be uploaded to an	accuracy.	Word Processing
	online platform.	I can organise data by designing fields and records in a	I can format text to indicate relative importance.
	I can upload informative and interesting content to a VLE	database.	I can justify text where appropriate.
	including various media.	I can interpret results, using a range of searches and	I can cut and paste between applications.
	I can initiate and take part in collaborative learning using a	graphs, draw conclusions and analyse the effectiveness	I can delete/insert and replace text to improve clarity
	variety of methods e.g. email, discussions, quizzes,	of the technology.	and mood.
	surveys, blogs, wikis, WebQuests, video conferencing.	I can draw conclusions from data and present findings to	I can make corrections using a range of tools (e.g. spell
	I can talk about how to use the social media and internet	a specified audience.	check, find and replace).
	search engines safely. I can develop and understand rules for personal internet	I can justify reasons for their choices and explain why	I can develop confidence using both hands when
	safety.	other methods were not appropriate.	typing.
	can develop and understand code of conduct for online	I can design questions using keywords to search a large	I can select appropriate software for the task/audience.
	collaboration and explain what to do in cases of	pre-prepared database.	I can plan the structure and layout of multimedia
	cyberbullying.	I can search using "greater" and "less than".	presentations.
	I can present findings to a specific audience.	I can use graphs to provide supporting evidence for their conclusions.	I can evaluate and select suitable information and
	Internet Safety	I can check for accuracy by checking data and looking at	media from a range of electronic resources.
	Coding	graphs.	I can use a multimedia authoring program to organise, refine and present information for a specific audience.
		I can present results of database research.	I can create a range of hyperlinks to produce a
	Programming		non-linear presentation.
	I can use "when" and "if" commands to create responses.		I can use thorough peer assessment and self
	I can use "say" commands to give information.		evaluation, make suitable improvements
	I can test and debug regularly.		
	I can program and explain what happens when more than		
	one variable changes. I can use "and", "or" and "not" blocks to change responses		
	and understand what they do.		
	I can program responses to inputs from sensors such as		
	Makey Makey or Picoboards.		
	I can understand when to use "repeat", "repeat until" and		
	"forever if" loops to make programs shorter and more		
	efficient and I can use them (understanding the differences		
	between them).		
	I can understand what 'events' are, such as mouse clicks		
	and broadcasts, and use them efficiently within programs to		
	start and stop scripts.		
	Online Communication (E-Safety)Play, like, share (CEOPs)	Animation and Photo editing	Sound, podcasting and composition
Year 6		I can plan a video or animation by drawing a storyboard	I can create a retelling of a Greek myth as a radio
	Keeping safe online	Film, create, edit and refine to ensure quality;present to	show.
	I can understand how to behave online.	an audience.	I can create a video comparing life in Sparta and
	I can talk about how to use social media and internet search		Greece

engines safely.	Llandling Data Databases	I can select and edit sounds, text, movie clips and other
I can develop and understand rules for personal internet	<u>Handling Data - Databases</u>	effects to suit purpose and audience
safety.		I can collect sounds from a variety of sources (sound
I can develop and understand code of conduct for online	I can organise data by designing fields and records in a	editing software, online, digital sound recorder)
collaboration and explain what to do in cases of	database.	I can import sounds, (recorded vocals, samples (digital
cyberbullying.	I can interpret results, using a range of searches and	sound files) and recordings from real instruments) into
	graphs, draw conclusions and analyse the effectiveness	sound editing software
Photo editing	of the technology.	I can layer and edit sounds
<u>I noto euting</u>		I can save multimedia work as a web compatible format
	I can design questions using keywords, to search a	for uploading and podcasting; share online
I can select, copy and paste within and between	large pre-prepared database.	
photographs.		Handling Data - Spreadsheets
	I can search using greater and less than.	<b>y</b>
I can explore "airbrush" techniques to improve photographs,		I can use spreadsheets to solve complex calculations
such as used in magazines with celebrities	Coding	Il can draw conclusions from data and present findings
	I can use "when" and "if " commands to create	to a specified audience.
I can use different filming techniques and camera angles	responses.	I can justify reasons for their choices and explain why
e.g. zoom, panning, wide shot etc to create different	I can use "say" commands to give information.	other methods were not appropriate.
mood/perspective	I can test and debug regularly.	I can present results of database research.
	I can program and explain what happens when more	
Internet Research	than one variable changes.	
I can search for relevant information.	I can use "and", "or" and "not" blocks to change	
I can skim and Search.	responses and understand what they do.	
I can use a range of search engines.	I can program responses to inputs from sensors such as	
I can collect and present information	Makey Makey or Picoboards.	
I can search the internet for specific information using tools	I can understand when to use "repeat", "repeat until" and	
such as Google Advanced Search (Boolean searches).	"forever if" loops to make programs shorter and more	
I can skim read and sift information found online.	efficient and I can use them (understanding the	
I can check information for accuracy.	differences between them). I can understand what 'events' are, such as mouse clicks	
	and broadcasts, and use them efficiently within programs	
Online communications (E-Safety)	to start and stop scripts.	
I can use a range of search engines and select the most	I can understand what variables and procedures are in	
appropriate based on the tools they provide (e.g. Google or	real life and I can create them within a computer program	
Bing).	to store and retrieve data.	
I can use information from internet to make notes and	I can think logically that when 'x 'happens 'y' is the result	
present in a form of their choosing, without using copied/	and show this using code, flowcharts, diagrams or	
pasted text.	explanations.	
Handing Data - Datalogging		
I can identify a problem which can be solved by collecting		
I can identify a problem which can be solved by collecting data and to identify which data to collect.		
I can make predictions for this investigation and understand		
how to make it a fair test.		

I can carry out the investigation, ensuring efficiency and accuracy.	
I can use ICT to measure sound, light or temperature using sensors and interpret the data. I can use graphs to provide supporting evidence for their conclusions.I can check for accuracy by checking data and looking at graphs.	
Multimedia: (including animation) I can use appropriate software – identifying suitable programs and information e.g. Adobe Spark, 2-Animate, imovie. I can plan the structure and layout of a multimedia presentation.	
I can evaluate and select suitable information and media from a range of electronic resources I can use a multimedia authoring program to organise, refine and present information for a specific audience I can create a range of hyperlinks to produce a non-linear presentation I can use thorough peer assessment and self evaluation, make suitable improvements	