

Nursery - Computing Curriculum.

Using technology (no specific term – taught throughout units below)	EYFS Links
I know how to use classroom technology like tablets, buttons, or screens with support.	Understanding the World – Technology
Knowing more, remembering more for the year: I know how to press a button or touch a screen to make something happen.	

Research - T2	EYFS Links
I know how to watch a video or interactive slide to help answer a question.	Communication and Language – Listening, Attention and Understanding Understanding the World – The Natural World

Communicating and collaborating online - T4	EYFS Links
I know how to help send a class message or drawing using the computer.	Personal, Social and Emotional Development – Building Relationships Communication and Language – Speaking

Creating and Publishing -T6	EYFS Links
I know how to use a drawing program to make marks or choose colours.	Expressive Arts and Design – Creating with Materials Physical Development – Fine Motor Skills

Digital Media - T1	EYFS Links
I know how to take a photo using a tablet or camera with help.	Expressive Arts and Design – Exploring and using media and materials Understanding the World – Technology

Using Data -T5	EYFS Links
I know how to help sort objects or pictures into groups using an app or activity.	Mathematics – Numerical Patterns Understanding the World – People, Culture and Communities

Programming and Control – T3	EYFS Links
I know that pressing buttons on a toy or robot can make something happen.	Understanding the World – Technology Physical Development – Fine Motor Skills

Reception - Computing Curriculum.

Using technology (no specific term – taught throughout units below)	EYFS Links
I know how to use apps and tools on a tablet or computer on my own or with a little help.	Understanding the World – Technology Physical Development – Fine Motor Skills
I know how to take a photo, use an app, and make a Bee-Bot move by myself or with help.	

Research - T2	EYFS Links
I know how to find out something by watching a video or using a digital book with support.	Understanding the World – The Natural World Communication and Language – Listening, Attention and Understanding

Communicating and collaborating online - T4	EYFS Links
I know how to help write and send a class email or message on a computer.	Literacy – Writing Communication and Language – Speaking

Creating and Publishing -T6	EYFS Links
I know how to draw a picture and add text using a painting or drawing program.	Expressive Arts and Design – Creating with Materials Literacy – Writing

Digital Media - T1	EYFS Links
I know how to take a photo using a tablet or camera and talk about it.	Expressive Arts and Design – Creating with Materials Communication and Language – Speaking

Using Data -T5	EYFS Links
----------------	------------

I know how to help collect information and show it as a picture chart using software as a whole class.	Mathematics – Numerical Patterns Understanding the World – The Natural World

Programming and Control – T3	EYFS Links
I know how to make a Bee-Bot move by giving it instructions.	Understanding the World – Technology Mathematics – Numerical Patterns
Knowing more, remembering more: I know that I can and how to make Beebot move.	

Year 1- Computing Curriculum.

Using technology (no specific term – taught throughout units below)	Software/Hardware
- I know how to login to a computer with a username/password. - I know how to use a keyboard to type.	BBC Dance Mat Typing
- I know how to use a mouse to open my saved work. - I know how to use a mouse to open a program. - I know how to click and drag to move objects on a screen with a mouse. - I know how to use a keyboard to type my name when I save my work.	2Paint
I know how to record my voice on a laptop or tablet.	Ipad voice recorder/Camera
Knowing more, remembering more: I know how to use a computer to open a program and type.	

Research - T2	Software/Hardware
- I know how to select forwards/backwards and home buttons to navigate a teacher given web sites or interactive slides. - I can identify and name icons e.g 2simple, Doodle maths, TT rock stars, Swiggle. - I know how to find out answers to questions from a digital resource (can be teacher made), interactive book/slides or video. - I know how to play and pause a video. - I am able to explain how I have found out information. Note: These skills rely on the teacher directing children to specific content. It is not expected for children to do open searching at this stage.	PowerPoint – teacher made Swiggle
Knowing more, remembering more: I know how to navigate a website or interactive book/slides and can tell you something I have learned.	

Communicating and collaborating online - T4	Software/Hardware
- I contribute ideas to a class email and together to write and respond to messages to and from Samuel Pepys. - I know that I can send information electronically.	Using class email address.
Knowing more, remembering more: I know how I can send information to someone with a computer.	

Creating and Publishing -T6	Software/Hardware
• I know how to add text to a photograph or drawing. • I know how to add a voice recording to a picture. • I know change the font size and colour.	2Createastory Link to guide for support here: 2Create a Story is a wonderful thing - 2simple.com
Knowing more, remembering more: I know how to add a voice recording and text to a drawing and change the font size and colour.	

Digital Media - T1	Software/Hardware
• I know how to use an ipad to take photos. • I know how to use an ipad to record a video. • I know how to record sounds on an ipad (voice recorder).	iPad camera and microphone
Knowing more, remembering more: I know how to take photos and organise them in software.	

Using Data -T5	Software/Hardware
• I know how to use software to organise foods by their characteristics.	2sort
• I know how to use software to create a simple pictogram showing favourite foods of the class. • I know that the pictogram shows the data that I have collected. • I know there is a link between data collected and the information presented on screen.	2investigate
Knowing more, remembering more: I know how to create a pictogram on 2investigate and can explain what it is showing.	

Programming and Control – T3	Software/Hardware
• I know how to move Bee-bot forwards, backwards, left and right. • I know how to program Beebot to follow a set of instructions. • I know move Beebot from one point to another on a mat.	Beebots
Knowing more, remembering more: I know that I can and how to make Beebot move.	

Year 2- Computing Curriculum.

Using technology (no specific term – taught throughout units below)	Software/Hardware
- I know where to find each letter on the keyboard. - I know how to type at a rate of 13wpm.	BBC Dance Mat Typing
- I know how to make a video on an iPad. - I know how to use a camera on an iPad to take a photograph. - I know how to use a laptop or iPad independently to access Doodle or TTRS.	iPad and laptop
Knowing more, remembering more: I know how to login to Doodle/TTRS with my username and password. I know how to use an iPad to take photographs and record videos.	

Research – T1	Software/Hardware
- I know how to enter <u>given</u> text into a search engine to find specific given web sites - I know the website address start with www. And this stand for world wide web. - I know how to ask questions about a specific topic and can find answer those questions on a given website. - I can navigate a given website using hyperlinks and menu buttons to locate the answers to given - I know how to copy and paste. - I know that some information does not answer my question. - I know we can get answers to questions from text, images, sound or videos. - I know how to locate links to web sites from Favourites or saved hyperlinks. - I know the internet holds a lot of information and you can use a search engine to find things. Note: Link to other areas of the curriculum.	Swiggle Given website URL Microsoft word or PowerPoint
Knowing more, remembering more: I know I can find out information but searching on the internet.	

Communicating and collaborating online - T5	Software/Hardware
- I know how to type a question onto a collaborative document. - I know that messages can be sent via the internet using email. - I know how to send and respond to a class email.	Padlet Class email
Knowing more, remembering more: I know how to contribute to a collaborative document and can read and respond to emails.	

Creating and Publishing - T6	Software/Hardware
• I know how to make a PowerPoint presentation. • I know how to add images, text boxes and word art. • I know how to change the font, font size, colour • I know how to save and load my work. • I know how to change the order of my slides.	PowerPoint
Knowing more, remembering more: I know how to create a presentation to share my learning.	

Digital Media – T2	Software/Hardware
• I know how to use an iPad to take photos on my own. • I know how to order images in software. • I know how to record my voice over images. • I know that I can create a video using a range of photos and sound recording.	iMovie
Knowing more, remembering more: I know that I can create a video using a range of photos and sound recording.	

Using Data - T4	Software/Hardware
I know how to use software to: • sort and compare the human and physical features of the UK. • create a pictogram. • create a graph comparing the weather in Swindon over a year • add labels to a graph	2investigate
Knowing more, remembering more: I know how to use 2investigate to sort features in a database and create a pictogram/graph with labels.	

Programming and Control - T3	Software/Hardware
• I know how to combine sequences of instructions to follow a pattern. • I know how to draw shapes by inputting a sequence of instructions.	ScratchJr
Knowing more, remembering more: I know how to use ScratchJr to combine instructions and can demonstrate this knowledge.	

Year 3- Computing Curriculum.

Using technology (no specific term – taught throughout units below)	Software/Hardware
- I know where to find the shift function and caps lock buttons on a laptop to make capital letters. - I know how to type at a rate of 15wpm.	BBC Dance Mat Typing
- I know how to make a video on an iPad. - I am able to explain why laptops or iPads may be more suitable for different purposes such as photography and typing. - I know how to use a laptop or iPad independently to access Doodle, TTRS and 2Simple software. - I know how to use a camera on an iPad to take a photograph.	iPad and laptop
Knowing more, remembering more: I know how to use a laptop to access 2Simple software and can type including capital letters. I can explain whether a laptop or iPad would be most suitable and why.	

Research – Term 1	Software/Hardware
- I know how to find a child friendly search engine independently. - I know how to use key words only in a search engine. - I know that too many words in a search can give me poor results. - I know how to search key words within a website (E.g. The BBC) to find specific information. - I know how search engines rank results and that some information is more relevant than others. - I know how to tell if a website is useful and safe by checking for a logo, date of publication and copyright. - I know that websites will often have hyperlinks that will take me somewhere else online. - I know that each website has a unique address.	Swiggle
Knowing more, remembering more: I am able to explain how a search engine works, including ranking results and key words. I know how to demonstrate as I explain.	

Communicating and collaborating online - Term 5	Software/Hardware
- I know that information is stored on the cloud and can be downloaded. - I know that multiple people can edit a collaborative document at the same time. - I know that other people's work can be edited or deleted when collaborating. - I know how to add my ideas to a shared document whilst respecting the contributions of others.	Padlet

Knowing more, remembering more: I know how to add information to a collaborative document and can explain that collaborating means working together on one document whilst being able to edit each other's contributions.

Creating and Publishing – Term 4	Software/Hardware
• I know the different ways text and images convey information. • I know how to edit text. • I know how to change the font size, style and colour. • I know that a template can be used for a specific purpose. • I know what 'page orientation' means and can find it in the software. • I know what a placeholder is and can say why it is important. • I know how to make changes to my content after I have added it. • I know where desktop publishing is used in the real world.	Children complete objectives with both: Publisher PowerPoint
Knowing more, remembering more: I know why desktop publishing is useful and can demonstrate how to change page orientation and text size, style and colour.	

Digital Media -Term 2	Software/Hardware
• I know that the program audacity can be used to record and change sounds. • I know how to record a sound in audacity. • I know how to sequence pre-recorded sounds in audacity. • I know how to save my new sound file. • I know how to insert images in PowerPoint • I know how to sequence images in PowerPoint. • I know how to add text to an image. • I know how to add a sound file to my PowerPoint	Audacity PowerPoint
Knowing more, remembering more: I know how to sequence sound files in Audacity and insert and sequence images in PowerPoint	

Using Data – Term 6	Software/Hardware
• I know what a database is. • I know what a database can be used for. • I know how to add data to a pre-made database.	Flexi-tree Mango Data

• I know how to create a graph/chart from a given database.	
Knowing more, remembering more: I know how to add information to a database and create a graph from the data. I can explain what a database is used for.	

Programming and Control - Term 3	Software/Hardware
• I know the objects in a Scratch project (Sprites and Backdrops). • I know that commands in Scratch are represented as blocks. • I know that a sprite is controlled by the commands I choose. • I know how to create a sequence of connected commands. • I know that my Sprite will respond exactly to my code. • I can combine sounds commands to build a sequence of commands. For additional support - https://teachcomputing.org/curriculum/key-stage-2/programming-a-sequence-in-music	ScratchJr
Knowing more, remembering more: I know how to create a sequence of commands for a sprite.	

Year 4- Computing Curriculum.

Using technology - (no specific term – taught throughout units below)	Software/Hardware
• I know how to use a laptop or iPad independently to access Doodle, TTRS, 2Simple software and a child-friendly search engine. • I know how to find student general with ease and can navigate to given folders/documents. • I know where to find the shift function and caps lock buttons on a laptop to make capital letters. • I know how to type at a rate of 20wpm. • I know how to use a camera on an iPad to take a photograph and understand that photos can be taken in different orientations. • I know how to make a video on an iPad and understand that videos can be taken in different orientations. • I am able to explain why laptops or iPads may be more suitable for different purposes such as photography and typing.	iPads Laptops
Knowing more, remembering more: I know how to find student general and can use a child-friendly search engine independently.	

Research - Term 1	Software/Hardware
• I know how to identify key words to search from a question I would like to explore. • I know how to use search engine tools for different types of media e.g. Google Image Search and understand that the results are not always what you expect • I know how to develop keywords and enter them into a chosen search engine. • I am aware that web sites are not always accurate and that information should be checked before it is used. • I know how to present my findings using a word processing or publishing package for a specific audience. • I know I must put my findings into my own words and not copy and paste from a website, • I know some search engines I can use to search for information. • I know how to skim read to find the answers to my questions.	Publisher or PowerPoint
Knowing more, remembering more: I know how to find answers to my questions using the internet.	

Communicating and collaborating online – Term 5	Software/Hardware
---	-------------------

• I know how e-mails work, and send e-mails between people within the Lainesmeadprimary domain. • I know how to use e-mail to e-mail work completed in school to my teachers • I know how to collaborate with peers to create a class list of questions for a project. • I know how to contribute/edit/refine contributions to a shared document and understand that all changes are visible • I know I need to include a suitable subject when sending an email. • I know how to add email addresses into the 'cc' field and what 'cc' and 'bcc' means. Note: Speak to IT tech about disabling authenticator for children's email accounts prior to the lessons.	Outlook – children use individual emails
Knowing more, remembering more: I know how that a class can work together online to gather ideas and why this is useful. I know how to send an email.	

Creating and Publishing – Term 4	Software/Hardware
• I know how hyperlinks are used within a webpage. • I know how images and text can be used to make a webpage clearer. • I know what an embedded document is and why it can be a useful part of a website. • I know how to use Googlesites to create a webpage that includes a hyperlink, images, embedded documents and text. • I know how to edit text and images to make my website clearer and easier to navigate for the user. Note: See usernames and passwords at end of document.	Google Sites
Knowing more, remembering more: I know how to make a simple website that includes a hyperlink to another webpage.	

Digital Media – Term 3	Software/Hardware
• I know how to create simple stop motion animations. • I know how to independently take photos in a sequence, paying attention to the quality of photos captured. • I know how to combine the pictures into one film which shares my learning. • I know how to edit clips together to create a video.	iPad cameras Moviemaker Canva
Knowing more, remembering more: I know how to create a simple stop motion animation and can explain the steps.	

Using Data – Term 2	Software/Hardware
• I know how to add data to a pre-made database. • I know how to create a basic database of my own.	Mango Data

• I know how to use a database to create different graphs (depending on the data). • I know how to use a database to answer questions.	
Knowing more, remembering more: I know how to find specific information from a database.	

Programming and Control – Term 6	Software/Hardware
• I know how to edit a snippet of code to make a specific outcome. • I know the difference between a count-controlled loop and an infinite loop and can decide which one to use. • I know how to edit a loop to make a specific outcome. • I know how to choose which action will be repeated for each object. • I know how to evaluate my code by testing. • I know how my changes will affect the outcome. • I know how to design my own code for a game, which may include given templates. • I know how to build a project that follows my design. • I know how to evaluate the steps I followed when creating my design. • I know how to evaluate the algorithm for my game and make changes as necessary. Note: For additional support - https://teachcomputing.org/curriculum/key-stage-2/programming-b-repetition-in-games	Scratch
Knowing more, remembering more: I know how to create a simple game that includes repetition and I can explain the process.	

Year 5- Computing Curriculum.

Using technology – (no specific term – taught throughout units below)	Software/Hardware
• I know how to use a laptop or iPad independently to access Doodle, TTRS, 2Simple software and a child-friendly search engine. • I know how to find student general with ease and can navigate to given folders/documents. • I know where to find the shift function and caps lock buttons on a laptop to make capital letters. • I know how to use the shift key to make a range of punctuation, including question marks and exclamation marks. • I know how to type at a rate of 25wpm. • I know how to use a camera on an iPad to take a photograph and understand that photos can be taken in different orientations. • I know how to make a video on an iPad and understand that videos can be taken in different orientations. • I know how to evaluate picture and video capture and enhance these by considering balance and stillness. • I am able to explain why laptops or iPads may be more suitable for different purposes such as photography and typing.	Laptops iPads
Knowing more, remembering more: I know how to create a question and exclamation mark on a keyboard.	

Research - T6	Software/Hardware
• I know how to create key word strings to find relevant information from different sources. • I know how to check multiple sources to validate my research. • I know why it is important to validate my research. • I can explain the implications of incorrect information that is unverified. • I know that the Internet may contain material that is irrelevant, bias, implausible and inappropriate • I know that websites are not always accurate and that information should be checked before it is used. • I know the issues of copyright and how they apply to my own work. • I know how to find, save and import pictures for use in a presentation using software of my choice. • I know how to import sound for use within a multimedia presentation using software of my choice.	Swiggle PowerPoint Publisher Google Sites
Knowing more, remembering more: I know how to validate information by looking at a range of sources and can explain why research should be validated.	

Communicating and collaborating online – T1	Software/Hardware
• I know how e-mails work and send e-mails between people within the Lainesmeadprimary domain. • I know how to use e-mail to e-mail work completed in school to my teachers and peers. • I know how to collaborate on a single document, using my learning from Year 4. • I know how to upload files to an online area for others to contribute to.	Outlook – children use individual emails Padlet

Note: Speak to IT tech about disabling authenticator for children's email accounts prior to the lessons.	
Knowing more, remembering more: I know how to attach a collaborative document to an email and send it to someone within the LainesmeadPrimary domain.	

Creating and Publishing – T5	Software/Hardware
• I know how to create a website that raises awareness about a sensitive issue in the world today. • I know how to use my prior learning of website features to edit and improve my website. • I know how to create a site that has multiple pages, with each page having a specific purpose. • I know how to choose images and text for my website with purpose and can explain my choices. • I know how to include multiple hyperlinks on my site and can explain how these work. • I know how to use a presentation tool mostly independently to create a presentation linking to my website. • I know how to create a cohesive style across my website and presentation.	Google Sites PowerPoint
Knowing more, remembering more: I know how to create a website with multiple pages and hyperlinks to documents and presentations that I have created.	

Digital Media – T4	Software/Hardware
• I know how to create music samples and sequence these. • I know how to plan and create film trailers incorporating a range of different scenes and effects. • I know how to use image creation tools to create more complex images, including using layers. • I know how to independently record video for a range of purposes. • I know how to take photographs for a specific reason or project and/or find appropriate images on-line. • I know how to upload video and sound files to a shared area.	Audacity MovieMaker Imovie Canva
Knowing more, remembering more: I know how to create a simple film trailer/video clip using video and sounds I have recorded.	

Using Data – T3	Software/Hardware
• I know how to use a database, including: entering data and searching for specific trends, using prior learning from Year 4. • I know how to create my own database. • I know how to use the computer and spreadsheets to create and alter graphs and charts.	Mango Data
Knowing more, remembering more: I know how to enter data into a database, edit data and create graphs from data.	

Programming and Control – Term T2	Software/Hardware
• I know how to identify and modify conditions in a program. • I know how conditions are used in selection. • I know how to create a program with different outcomes using selection. • I know how to design the flow of a pre-made program which contains if...then...else...statements. • I know that condition can direct program flow in one of two ways. • I know how to design a program of my own which uses selection. • I know how to test my algorithm for my simple selection program. • I know how to extend my program further by adding additional selection options. • I know how to improve my program to create a final product. Note: Use Scratch to create a quiz for a younger child. For additional support - https://teachcomputing.org/curriculum/key-stage-2/programming-b-selection-in-quizzes	Scratch
Knowing more, remembering more: I know how to create a simple selection based game. E.g. a quiz and can explain how selection works in programming.	

Year 6- Computing Curriculum.

Using technology – (no specific term – taught throughout units below)	Software/Hardware
• I know how to use the computer to login to school approved apps and to search the internet using search strings on Google. • I know how to find student general with ease and can navigate to given folders/documents. • I know where to find the shift function and caps lock buttons on a laptop to make capital letters and a range of punctuation, including question marks and exclamation marks. • I know how to type at a rate of 30wpm. • I know how to use a camera on an iPad to take a photograph and understand that photos can be taken in different orientations. • I know how to make a video on an iPad and understand that videos can be taken in different orientations. • I know how to evaluate picture and video capture and enhance these by considering balance and stillness. • I can explain why laptops or iPads may be more suitable for different purposes such as photography and typing.	iPads Laptops
Knowing more, remembering more: I can explain how to find specific folders on Student General and demonstrate how to use a keyword search string on Google.	

Research Term 1	Support	Software/Hardware
• I know how to create key word strings to find relevant information from different sources. • I know how to check multiple sources to validate my research. • I know why it is important to validate my research. • I can explain the implications of incorrect information that is unverified. • I can acknowledge my sources and explain what plagiarism is. • I know that the Internet may contain material that is irrelevant, bias, implausible and inappropriate • I know that websites are not always accurate, and that information should be checked before it is used. • I know that there are different types of search engines, including mainstream, private and vertical search engines. • I know the issues of copyright and how they apply to my own work. • I know how to find, save and import pictures for use in a multimedia presentation (PowerPoint). • I know how to investigate where web content may have originated from by looking at web address, author, other linked pages.	Useful websites for Plausibility: Investigate plausibility http://www.school-portal.co.uk/GroupHomepage.asp?GroupID=257454 Dog Island Free Forever: A puppy dog paradise.	Swiggle

I know how to skim and select information checking for bias and different viewpoints	http://www.thedogisland.com	
Knowing more, remembering more: I know what plagiarism is and can explain ways to avoid plagiarism by citing sources. I know how to check where information has originated from.		

Communicating and collaborating online T5	Software/Hardware
- I know how to collaborate on a single document, using my prior learning. - I know how to upload files to a shared area for use by others. - I know how to attach files to an email. - I know how to reply to an email. - I know how to add recipients (cc and bcc).	Outlook email
Note: Speak to IT tech about disabling authenticator for children's email accounts prior to the lessons.	
Knowing more, remembering more: I know how to login to my email account independently and reply to an email with an attachment.	

Creating and Publishing T2	Software/Hardware
- I know why 3D modelling may be useful. - I know how to select, drag and resize a 3D shape. - I know how to select a range of 3D objects to make a model of a real-world object. - I know how to group objects together. - I know how to rotate and duplicate a 3D object. - I know how to evaluate my 3D model based on given criteria. - I know how to improve my 3D model.	TinkerCAD Canva
Knowing more, remembering more: I know how to modify 3D shapes on TinkerCAD and create a website using Google Sites that has a clear purpose.	

Digital Media Term 4	Software/Hardware
----------------------	-------------------

• I know how to independently record sounds in order to create a sound file. • I know how to import sound for use within a multimedia presentation • I know how to use software to edit sounds – e.g. remove unwanted silences/trimming start and end - combine to make a podcast or similar broadcast. • I know how to apply effects to photographs using a computer and make edits (e.g. red eye removal). • I know how to compare and contrast different image creation and editing tools. • I know how to independently record video for a specific purpose. • I know how to take photographs for a specific reason or project and/or find appropriate images on-line.	iMovie MovieMaker Audacity Canva
Knowing more, remembering more: I know how to apply effects to photographs and edit them.	

Using Data Term 6	Software/Hardware
• I know how to use a database, including: entering data and searching for patterns and trends, using prior learning. • I know how to create my own database linked to my topic. • I know how to copy and paste information from and into cells. • I know how to use the computer and spreadsheets to create and alter graphs and charts.	Mango Data
Knowing more, remembering more: I know how create a database of my own and use the data form graphs to draw conclusions.	

Programming and Control T3	Software/Hardware
• I know how to identify information that is variable when coding. • I know that variables can hold numbers or letters. • I know that a variable is a placeholder in place for a single value. • I know that the value of a variable can be changed. • I know where in a program to change a variable to improve my program. • I know how to create algorithms for the Sprites in my project that include movement and control learnt in previous years. • I know how to use the sensing function on Scratch to create consequences in my game. E.g. if touching... • I know how to create a multi-level game and use the sensing function to allow my Sprite to move between them. • I know how to test code that I have written. Note: For additional support – https://teachcomputing.org/curriculum/key-stage-2/programming-a-variables-in-games	Scratch
Knowing more, remembering more: I know how to create a game that uses sensing to have consequences for my Sprite.	

Google site logins:

Please test logins prior to lesson

Year 4

plainesmead@gmail.com

lainesmead123

Year 6

Y6lainesmead@gmail.com

lainesmead123

Year 5

Y5lainesmead@gmail.com

lainesmead123