Progression of Knowledge by Class

	Tintern	Crowland/Regent	Westminster/St James	Fountains/Central	Lindisfarne	Sempringham/Phoenix	Kelso	Ramsey/Hyde
	(Y1)	(Y1/Y2)	(Y2/Y3)	(Y3)	(Y4)	(Y4/Y5)	(Y5/Y6)	(Y6)
omputing	Children should:	Children should:	Children should:	Children should:	Children should:	Same as Lindisfarne	Children should:	Same as Kelso
	Know that technology is something that	Know that technology is something that	Identify examples of computers. Know	Know that digital devices	Know how information	Y5 Taught in Year A	Know that systems	Y6 Taught in Year A
systems and	helps us.	helps us.	some uses of computers.	accept inputs.	is shared across the		are built using a	
networks	Locate examples of technology in the	Locate examples of technology in the	Know that a computer is a part of	Know that digital devices	internet Know why a		number of parts.	
	classroom	classroom	information technology.	produce outputs.	network needs		Know that a	
	Know the main parts of a computer.	Know the main parts of a computer.	Explain the purpose of information	Follow a process.	protecting. Know some		computer system	
	Know how to switch on and log into a	Know how to switch on and log into a	technology in the home.	Classify input and output	different networked		features inputs,	
	computer.	computer.	Know how to open a file.	devices.	devices and how they		processes, and	
	Know how to can use a mouse to click	Know how to can use a mouse to click	Know how to move and resize images.	Know how to model a simple	connect. Know how the		outputs.	
	and drag.	and drag. Know how to use a mouse to open a	Find examples of information	process.	internet allows us to view the World Wide		Know that computer	
	Know how to use a mouse to open a		technology and talk about their uses. Know how information technology is	Know how to design a digital device.	Web. Know that the		systems communicate with	
	program. Know how to click and drag to make	program. Know how to click and drag to make	used in a shop.	Know how to use digital	World Wide Web is the		other devices.	
	objects on a screen	objects on a screen.	Know that information technology can	devices for different activities.	part of the internet that		Know some tasks that	
	Use a mouse to create a picture. Know	Use a mouse to create a picture. Know	be connected and can explain how	Recognise similarities between	contains websites and		are managed by	
	that writing on a computer is called	that writing on a computer is called	information technology helps people.	using digital devices and non-	web pages.		computer systems.	
	typing.	typing.	List different uses of information	digital tools.	Know the types of		Know the human	
	Know how to type their name on a	Know how to type their name on a	technology.	Suggest differences between	media that can be		elements of a	
	computer	computer.	Know how to use information	using digital devices and non-	shared on the World		computer system.	
	Save and open work to a file.	Save and open work to a file.	technology responsibly.	digital tools.	Wide Web (WWW).		Explain the benefits	
	Know how to use the arrow keys to	Know how to use the arrow keys to		Recognise different	Know where websites		of a given computer	
	move the cursor.	move the cursor.		connections.	are stored when		system.	
	Delete letters.	Delete letters.		Know how messages are	uploaded to the WWW.		Know that data is	
	Know some rules for using technology	Some rules for using technology		passed through multiple	Know how to access websites on the WWW.		transferred using	
	responsibly	responsibly.		connections. Know why we need a network	Know how to create		agreed methods. Know that networked	
				switch.	media which can be		digital devices have	
				Know that a computer	found on websites.		unique addresses.	
				network is made up of a	Know they can add		Know that data is	
				number of devices.	content to the WWW.		transferred over	
				Know how information can be	Know that websites and		networks in packets.	
				passed between devices.	their content are		Know that connected	
				Know the role of a switch,	created by people		digital devices can	
				server, and wireless access	Determine who owns		allow us to access	
				point in a network.	the content on		shared files stored	
				Identify how devices in a	websites.		online. Know how to	
				network are connected with one another.	Know that there are rules to protect content.		send information over the internet in	
				Identify networked devices	Know that not		different ways.	
				around me.	everything on the World		Know that the	
				Know what the benefits of	Wide Web is true.		internet allows	
				computer networks are.	Know why they need to		different media to be	
					think carefully before		shared	
					sharing or resharing		Know some strategies	
					content.		to ensure successful	
							group work.	
							Make thoughtful	
							suggestions on my	
							group's work.	
							Compare working online with working	
							offline.	
							Identify different	
							ways of working	
							together online.	
							Know that working	
							together on the	
							internet can be public	
							or private. Explain	
							how the internet	
							enables effective	
		laren ekendek	dren should: Chil	ldren should:	Children should:	Children should:	collaboration.	Children also I
<u> </u>					L DUOTED SDOUID'	Children should:	Same as Lindisfarn	e Children shoul
Creating								
Creating Media	Know what technology is. Know Kno	w how to make marks on a screen Kno	w how to make marks on a screen Kno	ow what devices can be used to take ptographs.	Draw a sequence of pic Create an effective flip	ctures Identify digital devices	Y5 Taught in Year	

	Use a simple PAINT program	Know how to draw lines on a screen and explain which tools are used. Use the paint tools to draw a picture. Know how to make marks with the square and line tools and can use the shape and line tools effectively. Know how to use the shape and line tools to recreate the work of an artist. Choose appropriate shapes and colour choices. Know how to create a picture in the style of an artist. Know that different paint tools do different jobs and can say which tools were helpful and why. Make dots of colour on the page. Know how to change the colour and brush sizes. Know how to use dots of colour to create a picture in the style of an artist. Know the differences between painting on a computer and on paper and can express a preference.	Know how to draw lines on a screen and explain which tools are used. Use the paint tools to draw a picture. Know how to make marks with the square and line tools and can use the shape and line tools effectively. Know how to use the shape and line tools to recreate the work of an artist. Choose appropriate shapes and colour choices. Know how to create a picture in the style of an artist. Know that different paint tools do different jobs and can say which tools were helpful and why. Make dots of colour on the page. Know how to change the colour and brush sizes. Know how to use dots of colour to create a picture in the style of an artist. Know the differences between painting on a computer and on paper and can express a preference.	Explain the process of taking a good photograph. Know how to take photos in both landscape and portrait format and explain which looks better. Identify what is wrong with a photograph and can improve a photograph by retaking it. Know the effect that light has on a photo and can experiment with different light sources. Know why a picture may be unclear. Know that images can be changed and can use a tool to achieve a desired effect. Recognise which photos have been changed.	animation/flip book works. Predict what an animation will look like. Know why little changes are needed for each frame. Create an effective stop-frame animation. Know how to break down a story into settings, characters and events. Describe an animation that is achievable on screen. Know how to create a storyboard. Know how to use onion skinning to make small changes between frames. Know how to review a sequence of frames to check work. Add other media to an animation.	the inputs and outputs required to play audio or record sound. Recognise the range of sounds that can be recorded. Use a device to record audio and play back sound. Plan and write the content for a podcast. Know why it is useful to be able to save digital recordings. Know how to save a digital recording as a file. Know how to open a digital recording from a file. Know ways in which audio recordings can be altered. Know how to edit sections of an audio recording. Know how to use editing tools to arrange sections of audio. Know that digital recordings need to be exported to share them.	
Creating Media	Children should: Know that we can use technology for a range of purposes. Know that text comes in different sizes and colours. Know that computers can be used to create text. Use technology to assist their learning.	Children should: Know how to open a word processor. Recognise keys on a keyboard. Identify and find keys on a keyboard. Know how to enter text into a computer. Know how to use letter, number, and space keys. Know how to use backspace to remove text. Know how to type capital letters. Explain what the keys that they have learnt about already do. Know the toolbar and can use bold, italic, and underline. Select a word by double-clicking and all of the text by clicking and dragging. Know how to change the font. Know what tool they used to change the text. Know if changes have improved the writing and can use 'undo' to remove changes. Write a message on a computer and on paper and then compare using a computer with using a pencil and paper. Know which method they like best.	Children should: Know how to open a word processor. Recognise keys on a keyboard. Identify and find keys on a keyboard. Know how to enter text into a computer. Know how to use letter, number and space keys. Know how to use backspace to remove text. Know how to type capital letters. Explain what the keys that they have learnt about already do. Know the toolbar and can use bold, italic and underline. Select a word by double-clicking and all of the text by clicking and dragging. Know how to change the font. Know what tool they used to change the text. Know if changes have improved the writing and can use 'undo' to remove changes. Write a message on a computer and on paper and then compare using a computer with using a pencil and paper. Know which method they like best.	Children should: Identify simple differences in pieces of music. Listen with concentration to a range of music (links to the Music curriculum) Know how music makes me feel, e.g. happy or sad. Know how to create a rhythm pattern. Play an instrument following a rhythm pattern. Know that music is created and played by humans. Connect images with sounds. Use a computer to experiment with pitch and duration. Know how to relate an idea to a piece of music. Know that music is a sequence of notes. Know how to use a computer to create a musical pattern using three notes. Refine a musical pattern on a computer. Describe an animal using sounds and explain their choices. Know how to save their work. Know how to make their work better. Listen to music and describe how it makes me feel.	Children should: Know the difference between text and images. Know that text and images can communicate messages clearly. Know the advantages and disadvantages of using text and images. Change font style, size, and colours for a given purpose. Know how to edit text and can explain that text can be changed to communicate more clearly. Define the term 'page orientation'. Know what placeholders are and say why they are important. Know to create a template for a particular purpose. Know the best locations for content. Paste text and images to create a magazine cover. Make changes to content. Identify different layouts and match a layout to a purpose. Identify the uses of desktop publishing in the real world and say why desktop publishing might be helpful. Compare work made on	Children should: Identify changes that we can make to an image. Explore how images can be changed in real life. Explain the effect that editing can have on an image. Explain what has changed in an edited image. Change the composition of an image by selecting parts of it. Consider why someone might want to change the composition of an image. Talk about changes made to images. Choose effects to make my image fit a scenario. Explain why my choices fit a scenario. Identify how an image has been retouched. Give examples of positive and negative effects that retouching can have on an image. Choose appropriate tools to retouch an image.	

	Know the main drawing tools. Know how a vector drawing is different from paper-based drawings. Identify the shapes used to make a vector drawing. Know that each element added to a vector drawing is an object. Move, resize, and rotate objects. Know how to use the zoom tool to help add detail to drawings. Explain how alignment grids and resize handles can be used to improve consistency. Know how to modify objects to create different effects. Know that each added object creates a new layer in the drawing. Identify which objects are in the front layer or in the back layer of a drawing. Know how to change the order of layers in a vector drawing.	
ime as Lindisfarne 5 Taught in Year A	Children should: Know that a video can include both visual and audio media. Know the benefits of adding audio to a video. Plan a video project using a storyboard. Identify and name digital devices that can record video and sound. Know the most suitable digital device for recording a project. Know the working features of a digital device that can record video. Select a suitable device and software to capture a video. Know suitable methods of using a digital device to capture a video. Demonstrate the safe use and handling of devices. Know some of the features of an effective video. Record a video that	Same as Kelso Y6 Taught in Year A

					desktop publishing to work created by hand.	Sort images into 'fake' or 'real' and explain my choices. Combine parts of images to create new images. Talk about fake images around me. Consider the effect of adding other elements to my work. Compare the original image with my completed publication. Evaluate the impact of my publication on others through feedback.	
Data and information	Children should: Know that some objects are the same and some are different. Know how to sort objects. Count objects in a set.	Children should: Describe objects using labels. Know how to match objects to groups. Identify the label for a group of objects. Know how to count and group objects. Count a group of objects. Know how to describe an object using its properties. Find objects with similar properties. Know how to group similar objects in more than one way. Count how many objects share a property. Know to group objects and record how many objects are in a group. Know how to group objects to answer a question. Compare groups of objects. Know how to record and share what they have found.	Children should: Describe objects using labels. Know how to match objects to groups. Identify the label for a group of objects. Know how to count and group objects. Count a group of objects. Know how to describe an object using its properties. Find objects with similar properties. Know how to group similar objects in more than one way. Count how many objects share a property. Know to group objects and record how many objects are in a group. Know how to group objects to answer a question. Compare groups of objects. Know how to record and share what they have found.	Children should: Know how to record data in a tally chart. Know how to compare totals in a tally chart. Know how to enter data onto a computer. Know how to use a computer to view data in a different format. Know how to use pictograms to answer simple questions about objects. Know how to organise data in a tally chart. Know how to use a tally chart to create a pictogram. Explain what the pictogram shows. Know how to tally objects using a common attribute. Create a pictogram to arrange objects by an attribute. Choose a suitable attribute to compare people. Know how to collect the data they need to create a pictogram and draw conclusions from it. Use a computer program to present information in different ways. Know why information should not be shared.	Children should: Investigate questions with yes/no answers. Know how to make up a yes/no question about a collection of objects. Create two groups of objects separated by one attribute. Know how to select an attribute to separate objects into groups. Know how to create a group of objects within an existing group. Arrange objects into a tree structure. Know how to select objects to arrange in a branching database. Group objects using my own yes/no questions. Know how to create yes/no questions using given attributes. Know that questions need to be ordered carefully to split objects into similarly sized groups. Know how to compare two branching database structures. Know how to select a theme and choose a variety of objects. Create questions and apply them to a tree structure. Use my branching database to answer questions. Explain what a pictogram tells me. Know what a branching database tells them. Compare two ways of presenting information.	Children should: Know how to choose a data set to answer a given question. Suggest questions that can be answered using a given data set. Know that data can be gathered over time. Know that data can be gathered over time. Know that sensors are input devices. Use data from a sensor to answer a given question. Know that data from sensors can be recorded. Identify a suitable place to collect data. Identify the intervals used to collect data. Talk about the data that hey have captured. Know how to import a data set and can use a computer to view data in different ways. Know how to use a computer program to sort data. Propose a question that can be answered using logged data. Plan how to collect data that has been collected using a data logger. Interpret data that has been collected. Know the benefits of using a data logger.	Sai

	demonstrates some of the features of an effective video. Know why lighting and angle are important in creating an effective video. Know how to store, retrieve, and export my recording to a computer. Know how to improve a video by reshooting and editing. Select the correct tools to make edits to a video. Make edits to a video and improve the final outcome. Know that choices when making a video will impact on the quality of the final outcome. Evaluate a video and share opinions.	
ame as Lindisfarne 5 Taught in Year A	Children should: Create multiple questions about the same field. Know how information can be recorded. Know how to order, sort, and group my data cards. Know how to onder, sort, and group my data cards. Know how to navigate a flat-file database to compare different views of information. Know what a 'field' and a 'record' is in a database. Know which field to sort data by to answer a given question. Know how information can be grouped Group information to answer questions. Know how to combine grouping and sorting to answer more specific question. Know which field and value are required to answer a given question. Know how 'AND' and 'OR' can be used to refine data selection. Choose multiple criteria to answer a given question. Select an appropriate chart to visually compare data. Know how to refine a chart by selecting a	Same as Kelso Y6 Taught in Year A

								particular filter. Know the benefits of using a computer to create graphs. Ask questions that will need more than one field to answer. Know how to refine a search in a real-world context.	
Programming A	Children should: know what a bee-bot is. Make a bee-bot move forward, backwards and turn. Follow a route with a bee-bot. Move from one place to another with a bee-bot.	Children should: Know the outcome of a command on a device. match a command to an outcome. Know how to run a command on a device. Follow an instruction. Recall words that can be acted out. Know how to give directions and compare forwards and backwards movements. Start a sequence from the same place. Know how to predict the outcome of a sequence involving forwards and backwards commands. Compare left and right turns and experiment with turn and move commands to move a robot. Know how to predict the outcome of a sequence involving up to four commands. Plan a simple program and explain what their program should do. Know how to choose the order of commands in a sequence. Know how to debug my program and identify several possible solutions. Plan two programs and use two different programs to get to the same place.	Children should: Know the outcome of a command on a device. Match a command to an outcome. Know how to run a command on a device. Follow an instruction. Recall words that can be acted out. Know how to give directions and compare forwards and backwards movements. Start a sequence from the same place. Know how to predict the outcome of a sequence involving forwards and backwards commands. Compare left and right turns and experiment with turn and move commands to move a robot. Know how to predict the outcome of a sequence involving up to four commands. Plan a simple program and explain what my program should do. Know how to choose the order of commands in a sequence. Know how to debug my program and identify several possible solutions. Plan two programs and use two different programs to get to the same place.	Children should: Follow instructions given by someone else. Know how to choose a series of words that can be enacted as a sequence. Give clear and unambiguous instructions. Know how to create different algorithms for a range of sequences (using the same commands). Use an algorithm to program a sequence on a floor robot. Know the difference in outcomes between two sequences that consist of the same commands. Know how to follow a sequence and predict the outcome. Compare a prediction to the program outcome. Explain the choices made for a mat design and identify different routes around a mat. Know how to test a mat to make sure that it is usable. Know what an algorithm should achieve and can create an algorithm to create a goal. Know how to use an algorithm to create a program. Plan algorithms for different parts of a task. Know how to test and debug each part of the program and put together the different parts of a program.	Children should: Identify the objects in a Scratch project (sprites, backdrops). Know that objects in Scratch have attributes. Know that commands in Scratch are represented as blocks. Know that each sprite is controlled by the commands they choose. Choose a word which describes an on-screen action for their design. Create a program following a design. Know how to start a program in different ways. Create a sequence of connected commands. Know that the objects in a project will respond exactly to the code. Know what a sequence is. Know how to create sound commands. Order notes into a sequence. Know how to build a sequence of commands. Decide the actions for each sprite in a program. Know how to make design choices for their artwork. Identify and name the objects they will need for a project. Relate a task description to a design. Implement an algorithm as code.	Children should: Know how to program a computer by typing commands. Explain the effect of changing a value of a command. Create a code snippet for a given purpose. Use a template to draw what they want a program to do. Know how to write an algorithm to produce a given outcome. Test an algorithm in a text-based language. Identify repetition in everyday tasks. Know how to identify patterns in a sequence. Use a count-controlled loop to produce a given outcome. Know how to identify the effect of changing the number of times a task is repeated. Predict the outcome of a program containing a count-controlled loop Know which values to change in a loop. Identify 'chunks' of actions in the real world. Know how to use a procedure in a program. Explain that a computer can repeatedly call a program that includes count-controlled loops. Make use of my design to write a program. Know how to develop my program by debugging it.	Same as Lindisfarne Y5 Taught in Year A	Children should: Know how to build a simple circuit to connect a microcontroller to a computer. Program a microcontroller to light an LED. Know when to use an infinite loop Know how to connect more than one output device to a microcontroller. Design sequences for given output devices. Know which output devices to control with a count- controlled loop. Explain that a condition is something that can be either true or false (e.g. whether a value is more than 10, or whether a button has been pressed). Know what a 'do until' loop is. Program a microcontroller to respond to an input. Know that a condition being met can start an action. Identify a condition and an action in my project. Know how to use selection (an 'if then' statement) to direct the flow of a program. Know how to identify a condition to start an action (real world). Describe what my project will do (the task) and create a detailed drawing of my project. Write an algorithm to control lights and a motor. Know how to use selection to produce an intended outcome. Know how to use selection to produce an intended outcome. Know how to use saled debug a project	Same as Kelso Y6 Taught in Year A

Programming B Children should: Children shou shou sho sho sho sho sho shou sho sho sho sho sho sh
DPlan a route for a bee bot. Plan two or three turns in their route.move a sprite.move a sprite.that a program needs to be started. Know how to run a program and predict
Plan two or three turns in their route.Compare different programming tools. Know how to use more than one block by joining them together.Compare different programming tools. Know how to use more than one block by joining them together.Know how to use more than one block by joining them together.Know how to use more than one block by joining them together.Know how to use more than one block by joining them together.Know how to use more than one block by joining them together.Know how to use more than one block by joining them together.Know how to use more than one block by joining them together.Know how to use more than one block by joining them together.Know how to use more than one block by joining them together.Know how to use more than one block by joining them together.Know how to use more than one block by joining them together.Know how to use more than one block by joining them together.Know how to use more than one block by joining them together.Know how to use more than one block by joining them together.Know how to use more than one block by joining them together.Know how to use more than one block by joining them together.Know how to use more than one block by joining them together.Know how to use more than one block the outcome of a sequence of commands.Action.Action.Including repetition.Control an object on an iPad programme using forwards backwards and turns.Know how to find blocks that have numbers and change them Know what happens when they do. Know how to include more than oneKnow what happens when they do. Know how to include more than oneKnow how to include more than one Know how to include more than oneKnow how
route. Reach a destination. Follow routes on other programmes.Know how to use more than one block by joining them together.Know how to use more than one block by joining them together.the outcome of a sequence of commands.Choose which keys to use for actions and explain my choicesKnow how to predict the outcome of a snippet of code.Control an object on an iPad programme using forwards backwards and turns.Know how to find blocks that have numbers and change them Know how to include more than oneKnow how to find blocks that have numbers and change them Know how to include more than oneKnow how to include more than
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Follow routes on other programmes.Use a Start block in a program and then run their program.Use a Start block in a program and then run my program.Know how to match two sequences with the same outcome.Identify a way to improve a program.snippet of code.Control an object on an iPad programme using forwards backwards and turns.Know how to find blocks that have numbers and change themKnow how to find blocks that have numbers and change themKnow how to find blocks that have numbers and change themKnow how to find blocks that have numbers and change themKnow how to find blocks that have numbers and change themKnow how to find blocks that have numbers and change themKnow how to find blocks that have numbers and change themKnow how to find blocks that have numbers and change themKnow how to find blocks that have numbers and change themKnow how to find blocks that have numbers and change themKnow how to find blocks that have numbers and change themKnow how to find blocks that have numbers and change themKnow how to find blocks that have numbers and change themKnow how to find blocks that have numbers and change themKnow how to find blocks that have numbers and change themKnow how to include more than oneKnow how to match two sequences with the same outcome.Identify a way to improve a program.Snippet of code. Know how to modify algorithm.Know how to include more than oneKnow how to include more than oneKnow how to include more than oneKnow how to include more than
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backwards and turns. Know what happens when they do. Know how to include more than one Know how to include m
Know how to include more than one Know how to include more than one algorithm. character in a maze. loops to produce a given
Know how to include more than one Know how to include more than one algorithm. character in a maze. loops to produce a given
sprite and can delete a sprite if needed. sprite and can delete a sprite if needed. Know which blocks to use to meet the Know how to program outcome.
Know how to add blocks to each of my Know how to add blocks to each of my design. movement. Choose when to use a
sprites. sprites. Know how to build the sequences of Know how to use a count-controlled and an
Know how to choose appropriate Know how to choose appropriate blocks they need. programming extension. infinite loop.
artwork for my project. And the real work for my project. Know how to choose backgrounds and Consider the real world when Know that some
Decide how each sprite will move. Know Decide how each sprite will move. Characters for the design. making design choices. programming languages
how to create an algorithm for each Know how to create an algorithm for Create a program based on the new Know how to choose blocks to enable more than one
sprite and use an algorithm to create a each sprite and use an algorithm to design. set up my program. process to be run at
program. create a program. Know how to choose the images for my Know how to identify once. Know which
Know how to add programming blocks Know how to add programming blocks can build sequences of blocks to match Choose suitable keys to turn Explain what the
based on an algorithm. based on an algorithm. my design. on additional features. outcome of the
Know how to test the programs.Know how to test the programs.Know how to compare a project to aKnow how to build morerepeated action should
design. sequences of commands to be.
Improve a project by adding features. make their design work. Know know to evaluate
Know how to debug. how to test a program against the effectiveness of the
a given design. repeated sequences
Match a piece of code to an used in a program.
outcome. Know which parts of a
Modify a program using a loop can be changed
design. and what happens then.
Make design choices and Re-use existing code
justify them. snippets on new sprites.
Know how to implement a Know how to design a
design and evaluate a project. project that includes
repetition.
Evaluate the use of
repetition in a project.
Know how to select key
parts of a given project
to use in their own
design.
Develop their own
design explaining what
the project will do.
Know how to refine the
algorithm in a design
and build a program
that follows the design.
Know how to evaluate
the project.

Same as Lindisfarne Y5 Taught in Year A

Children should: Know how conditions are used in selection. Identify conditions in a program. Know how to modify a condition in a program. Know how to use selection in an infinite loop to check a condition. Identify the condition and outcomes in an 'if... then... else...' statement. Know how to create a program with different outcomes using selection. Know that program flow can branch according to a condition. Design the flow of a program which contains 'if ... then ... else...' Know that a condition can direct program flow in one of two ways. Outline a given task and use a design format to outline my project. Know how to identify the outcome of user input in an algorithm. Know how to create

Same as Kelso Y6 Taught in Year A

the first section of a program. Test a program and identify ways the program could be improved. Know how to identify the setup code and extend a program further.