



Nebula
where stars are born

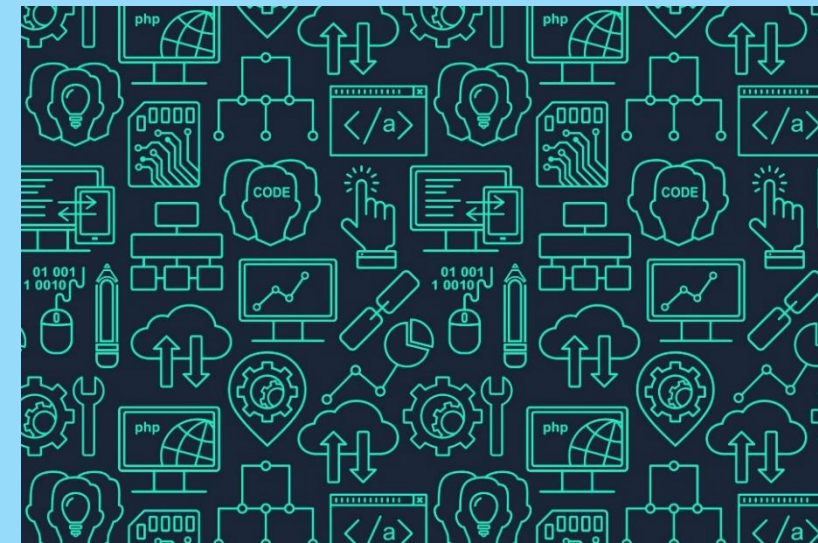
2024/25

Curriculum Skills and Progression Map Computing

Christian Distinctiveness Statement

At Old Catton Junior School we enable the children to flourish in our modern and ever-changing world within our Computing curriculum. Through our teaching of E-Safety, we encourage our Christian value of love. We teach the children to treat one-another in a loving way and not treating anyone in an unkind or unfair way. This also links in with our school bible story of the Parable of the Lost Sheep as we are helping the children to understand that no one should feel left out or lost in the online world. As the children learn new skills, we give them hope for their future achievements and provide joy as the children overcome barriers and complete new tasks.

'Spirituality is the bitter-sweet yearning for beauty, truth, love and wonder beyond ourselves. It is a longing we pursue together and a treasure we glimpse in ourselves and one another and seek beyond us into eternity. It is life in all its fullness.' Nebula Spirituality Statement



Old Catton Junior School

CONTEXT AND INTENT

This document has been rewritten following the trail and adoption of the iLearn2 scheme of work for Computing. The website for iLearn2 can be found [here](#) and we have adapted the scheme to suite our setting and pupils.

The intent of our Computing scheme is to help pupils become independent, creative, safe, respectful and problem-solving digital citizens with a broad and transferrable skillset. Our lessons aim to make computing fun for pupils, inspiring them to develop skills beyond the classroom and building an awareness of all the opportunities the subject provides.

COMPUTING: AGE RELATED STATUTORY COVERAGE

KEY STAGE ONE LEARNING (for reference)	KEY STAGE TWO LEARNING
<ul style="list-style-type: none"> • Understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions • Create and debug simple programs • Use logical reasoning to predict the behaviour of simple programs • Use technology purposefully to create, organise, store, manipulate and retrieve digital content • Recognise common uses of information technology beyond school • Use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies. <p>Both Key Stages:</p> <ul style="list-style-type: none"> • Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a 	<ul style="list-style-type: none"> • Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts • Use sequence, selection, and repetition in programs; work with variables and various forms of input and output • Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs • Understand computer networks including the internet; how they can provide multiple services, such as the world wide web; and the opportunities they offer for communication and collaboration • Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content

<p>range of ways to report concerns about content and contact.</p>	<ul style="list-style-type: none"> • Select, use and combine a variety of software on a range of digital devices to design and create a range of programs, systems and content to accomplish given goals
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Skills Map – Computing		
Year 3 – Computing		
Computer Science	Information Technology	Digital Literacy
<p><i>Design, write and debug programs that accomplish specific goal, including simulating physical systems.</i></p> <p><i>Use sequence and repetition in programs; work with various forms of input.</i></p>	<p><i>Select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals.</i></p> <p><i>Design and create content that accomplish given goals.</i></p> <p><i>Collect, classify and present data.</i></p>	<p><i>Use technology safely, respectfully and responsibly.</i></p> <p><i>Recognise acceptable/unacceptable behaviour.</i></p> <p><i>Identify a range of ways to report concerns about content and contact.</i></p>
Year 3 - Greater Depth		
<ul style="list-style-type: none"> • Can they recognise the impact of keyword choice on search engine results? (e.g. results ranked according to relevance or reliability of content and credibility of sources) • Can they use a range of block code to identify and evaluate the most efficient and appropriate use? (e.g. events, motion, sensing, sound, control) • Can they evaluate content (created/researched) against a given goal? • Can they discuss some of the protocols involved in transmitting data via the internet? 		

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Skills Map – Computing		
Year 4 – Computing		
<i>Computer Science</i>	<i>Information Technology</i>	<i>Digital Literacy</i>
<p><i>Design, write and debug programs that accomplish specific goals.</i></p> <p><i>Use sequence, selection, and repetition in programs; work with various forms of input and output.</i></p> <p><i>Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs.</i></p>	<p><i>Select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals.</i></p> <p><i>Collecting, analysing, evaluating and presenting data and information.</i></p>	<p><i>Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.</i></p> <p><i>Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content.</i></p>
Year 4 - Greater Depth		
<ul style="list-style-type: none"> • Can they design and create content on a computer in response to a given goal, paying attention to the needs of a known audience? (e.g. digital artwork linked to their topic, themes or core text) • Can they give reasons for errors in programs and explain how they have corrected these through decomposition and debugging? • Can they explain an algorithm using sequence, repetition and selection in their own words? 		

Skills Map – Computing		
Year 5 – Computing		
<i>Computer Science</i>	<i>Information Technology</i>	<i>Digital Literacy</i>
<p><i>Design, write and debug programs that accomplish specific goals; solve problems by decomposing them into smaller parts including controlling or simulating physical systems</i></p> <p><i>Use sequence, selection, and repetition in programs; work with variables and various forms of input and output.</i></p> <p><i>Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs.</i></p> <p><i>Use sequence, selection, and repetition in programs; work with variables and various forms of input and output.</i></p>	<p><i>Select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals.</i></p> <p><i>Collecting, analysing, evaluating and presenting data and information.</i></p> <p><i>Design and create a range of programs, systems and content that accomplish given goals.</i></p>	<p><i>Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.</i></p> <p><i>Understand computer networks, including the internet; how they can provide multiple services, such as the World Wide Web, and the opportunities they offer for communication and collaboration.</i></p>
Year 5 - Greater Depth		
<ul style="list-style-type: none"> • Can evaluate content according to its effectiveness and impact on a target audience? • Can they write programs that have sequences, repetitions and variables? (e.g. creating a scoring system as part of a Scratch game) • Do they consider audience when editing media and justify their choices? • Can they explain in simple terms how computers can generate photorealistic? • Can they create complex and compound, aesthetically pleasing shapes? 		

Skills Map – Computing		
Year 6 – Computing		
<i>Computer Science</i>	<i>Information Technology</i>	<i>Digital Literacy</i>
<p><i>Design, write and debug programs that accomplish specific goals; solve problems by decomposing them into smaller parts.</i></p> <p><i>Use sequence, selection, and repetition in programs; work with variables and various forms of input and output.</i></p> <p><i>Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs.</i></p>	<p><i>Select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals.</i></p> <p><i>Design and create digital content to accomplish goals.</i></p> <p><i>Use search technologies effectively and be discerning in evaluating digital content.</i></p>	<p><i>Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.</i></p>
Year 6 - Greater Depth		
<p><i>Understand how instructions are stored and executed within a computer system; understand how data of various types (including text, sounds and pictures) can be represented and manipulated digitally, in the form of binary digits. (Key Stage 3)</i></p> <p><i>Use a textual programming language to solve a variety of computational problems. (Key Stage 3)</i></p>		

Skills Map - Computing
E - Safety
<p>E-Safety is taught discreetly in Computing lessons and is also embedded into our units of work. It is very important to us that we prepare pupils for the challenges of using technology as well as celebrating its many applications. Staff understand that computing is an ever-evolving subject and issues around e-safety also develop and change as technology evolves. Staff may choose to respond to new e-safety challenges as they arise in school or in society as a whole.</p>

Knowledge and Understanding	Skills
<ul style="list-style-type: none"> • Do they understand the need for rules to keep them safe when exchanging learning and ideas online? • Can they recognise that information on the internet may not be accurate or reliable and may be used for bias, manipulation or persuasion? • Do they understand that the internet contains fact, fiction and opinion and begin to distinguish between them? • Can they use strategies to verify information, e.g. cross-checking? • Do they understand the need for caution when using an internet search for images and what to do if they find an unsuitable image? • Do they understand that copyright exists on most digital images, video and recorded music? • Do they understand the need to keep personal information and passwords private? • Do they understand that if they make personal information available online it may be seen and used by others? • Do they know how to respond if asked for personal information or feel unsafe about content of a message? • Can they recognise that cyber bullying is unacceptable and will be sanctioned in line with the school's policy? • Do they know how to report an incident of cyber bullying? 	<ul style="list-style-type: none"> • Do they follow the school's internet rules? • Do they recognise the difference between the work of others which has been copied (plagiarism) and re-structuring and re-presenting materials in ways which are unique and new? • Can they begin to identify when emails should not be opened and when an attachment may not be safe? • Can they explain how to use email safely? • Can they use different search engines?

<ul style="list-style-type: none"> • Do they know the difference between online communication tools used in school and those used at home? • Do they understand the need to develop an alias for some public online use? 	
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PROGRAM OF STUDY

Within our Computing curriculum Teachers have a lot of freedom over the units taught, the speed at which they are taught and the order in which these units are completed. Compulsory units are indicated in blue and must be taught during the year. Units in black are relevant for the year group and can be taught if time allows, but can also be missed if needed, as the main curriculum aims are covered within the compulsory units. E-Safety is always the first unit taught in every year group. The units which follow can be taught in any order, although both classes in the year group will follow the same order. The units all differ in length, meaning that some units may take an entire half term to complete whilst others only take a few weeks. This fact, along with each teacher's desire to follow different cross-curricular links means that they can follow the computing curriculum in a way which suits their teaching time, other units the children are learning about and the children's differing abilities and interests. In addition to this, the units build upon the previous *year's* knowledge, rather than building upon the previous unit.

YEAR 3 PROGRAM OF STUDY

Unit	Learning Intentions and Skill covered	Outline of suggested Program of Study. Full plans at ilearn2.co.uk
3.E E-Safety NC (e, g) Digital Literacy	Understand what to do if something upsets you online. Understand why and how people can be nasty online. Describe the term 'sharing online' and why we need to get permission to share photos and videos of other people. Understand why people pretend to be someone else online.	Use of the resources from the Band Runner series on thinkyouknow.co.uk . Class discussions. Use SMART rules from Childnet.

	<p>Understand why we only talk to people we know in the real world, when online.</p> <p>Understand why we should not always trust what we read online and how to check</p> <p>Understand the importance of being kind in the real world and also online.</p>	
<p>3.1 Digital Art NC (P)</p> <p>Information Technology</p>	<p>Use various lines and fill tools plus copy/paste and rotation to create pattern effects.</p> <p>Use shapes, fill, copy/paste, zoom and flip to create reflective symmetry effects.</p> <p>Use stamps, copy/paste, layers and multiple frames to create animated GIF computer graphics.</p>	<p>In this unit there are 3 projects for building skills in creating digital artwork, using an online editor. Each project has videos to for each skill.</p> <p>Activity 1. Use various lines and fill tools plus copy/paste and rotation to create wrapping paper effects.</p> <p>Activity 2. Use various tools to build a city landscape and then use reflective symmetry.</p> <p>Activity 3. Pupils learn how to design a level for a platform game using stamps and copy/paste to build up the different graphics, then add layers and animate it with multiple frames.</p>
<p>3.2 Programming in Scratch NC (a, c)</p> <p>Computer Science</p>	<p>Design, write and debug programs that accomplish specific goals. (Including outputs)</p> <p>Use repetition in programs.</p> <p>Work with various form of inputs; keyboard, mouse and touch screen.</p> <p>Write programs to simulate physical systems.</p>	<p>Activity 1. Write a simple program with text outputs, wait commands and movement</p> <p>Activity 2. Write a program with movement and repetition.</p> <p>Activity 3. Write programs using different inputs; keyboard, mouse and touch screen.</p> <p>Pupil Activity 4. Write programs with mouse/touch inputs and text outputs</p> <p>Pupil Activity 5. Write a program that simulates physical systems (Traffic lights)</p>
<p>3.3 Music Creation</p> <p>Information Technology</p>	<p>Create ascending and descending scales.</p> <p>Add chords evenly across the scales.</p> <p>Add arpeggios and melodies.</p> <p>Add a steady and even rhythm.</p> <p>Use sampled sounds to create an effective mix.</p>	<p>Activity 1. Scales, chords, melodies, rhythm and tempo</p> <p>Use the videos below to help create scales, pitch, chords, melody and rhythm using Music Lab Song Maker.</p> <p>Activity 2. Use mixing tools to build a song using different sampled voices.</p>

	Build beats, melody (tones) and effects.	Activity 3. Build a beat/rhythm, melody and sound effects.
3.4 Programming in Kodu Computer Science	Create a 3D place using various design tools. Write a program to control using keyboard inputs. Write a program with conditions (selection). Write a program with variables	Activity 1. Build a 3D world in Kodu with hills and water. Activity 2. Program Kodu characters with keyboard inputs. Activity 3. Program conditions (selection) and a scoring system. Activity 4, Add multiple players and game over conditions.
3.5 Document Editing and creation Information Technology	Copy and Paste text and images. Find and replace words. Format text for a purpose. Add bullet points to make lists. Experiment with keyboard shortcuts.	Activity 1. Copy and paste text Activity 2. Find and replace text Activity 3. Change the appearance of text Activity 4. Add an image and edit it Activity 5. Bullet Points Activity 6. Keyboard shortcuts
3.6 3D Design NC (P) Information Technology	Understand and use 3D space on a grid. Re-create or design familiar 3D models using cubes, such as tables and chairs. Use chisel tool to improve and adapt models. Colour individual blocks or whole models.	Activity 1. Understanding 3D Space. Activity 2. Using the different tools of 3D slash and build a 3D table. Activity 3. Using the chisel and extending items.
3.7 Info graphics Information Technology	Understand what an infographic is and why we use them. Search for and add suitable graphic elements. Add and format suitable titles and text. Label an image with arrows and text.	Pupils learn what an infographic is and how to create one by adding text to graphic elements.
3.8 Branching Databases Information Technology	Add and label objects within a branching database. Ask questions to sort (classify) objects.	Pupils learn how to create a branching database using Junior Tools Website.

<p>3.9 Data Handling</p> <p>Information Technology</p>	<p>Interpret and present data using bar charts, pictograms and tables</p> <p>Solve one-step and two-step questions [for example 'How many more?' and 'How many fewer?'] using information presented in scaled bar charts and pictograms and tables</p>	<p>*See OneNote for plans and videos*</p> <p>Session 1: Children to create their own pictograms from data presented in a table, then answer one-step and two-step questions with increasing difficulty.</p> <p>Session 2: Children to create their own bar charts from data presented in a table, then answer one-step and two-step questions with increasing difficulty.</p> <p>Session 3: Children to be provided with a bar chart and pictogram and asked to use them to fill in a table of information.</p>
YEAR 4 PROGRAM OF STUDY		
Unit	Learning Intentions and Skills covered	Outline of suggested Program of Study. Full plans at ilearn2.co.uk
<p>4.E E-Safety NC (e, g)</p> <p>Digital Literacy</p>	<p>Understand what to do if something upsets you online.</p> <p>Understand why and how people can be nasty online.</p> <p>Describe the term 'sharing online' and why we need to get permission to share photos and videos of other people.</p> <p>Understand why people pretend to be someone else online.</p> <p>Understand why we only talk to people we know in the real world, when online.</p> <p>Understand why we should not always trust what we read online and how to check</p> <p>Understand the importance of being kind in the real world and also online.</p>	<p>Use of the resources from the Band Runner series on thinkyouknow.co.uk.</p> <p>Class discussions.</p> <p>Use SMART rules from Childnet.</p>
<p>4.1 Animation NC (f)</p> <p>Information Technology</p>	<ol style="list-style-type: none"> 1. Create a stop-motion video by duplicating slides that include backgrounds and shapes. (Activity 1) 2. Create animation using transition and animation effects (morph, motion paths, pulse etc), including taking and editing a screenshot. (Activity 2-4) 3. Animate individual elements of objects. (Activity 5) 	<p>Activity 1. Create stop motion animation in PowerPoint/Keynote/Google Slides by duplicating slides with background colour and shapes</p> <p>Activity 2 – Use Magic Move in Keynote or Morph Transitions in PowerPoint to create Animations</p> <p>Activity 3- Use Motion Path Animations in PowerPoint/Keynote</p> <p>Activity 4- Use Pulse Animations in PowerPoint/Keynote</p>

	4. Create animated GIF files by animating pixels. (Activity 6)	Activity 5. Animate individual elements of objects Activity 6. Create animated GIF files using moving pixels
4.2 <i>Programming using Scratch</i> NC (a, c) Computer Science	Use sequence, selection, and repetition in programs. 2. Work with variables and various forms of input and output. 3. Debug programs that accomplish goals. (correcting errors) 4. Work with variables and conditions.	Activity 1. Program inputs with loops. Use selection and sensing for interactions. Activity 2. Write a program with audio outputs and inputs. Activity 3. Debug a variety of programs (correcting errors) Activity 4. Program selection with data variables and operators. Activity 5.- Program a Virtual Robot using Scratch blocks.
4.3 <i>Internet Research</i> NC (e) Digital Literacy	Appreciate how search results are selected and ranked and show awareness of different strategies for finding specific information (Teacher input) Understand the features of an Internet Browser (Teacher Input and unplugged task) Use search technologies (different websites) to find specific pieces of information (Activity 1 and 2) Reference the correct source of information (Activity 3) Be discerning in evaluating digital content. (Activity 4) Check the internet for fake news by cross-referencing facts (Activity 5)	Activity 1. Pupils use minibeast website to find facts about. Activity 2. Pupils use search engines to find information about their date of birth. Activity 3. Pupils find answers to questions on the internet and cite their sources. Activity 4. Pupils compare information about the same subject from different websites. Activity 5. Pupils learn the importance of finding their information from a credible source.
4.4 <i>Data Handling</i> NC (f) Information Technology	*From Maths NC expectations* Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs	*See OneNote for plans and videos* Session 1: Children to create their own time graph from data presented in a table, then answer simple comparison, sum and difference questions with increasing difficulty. Session 2: Children to create their own discrete and continuous bar charts from data presented in a table, then answer simple comparison, sum and difference questions with increasing difficulty. Session 3: Children to be provided with a time graph, discrete and continuous bar chart and asked to use them to fill in tables of information.

<p>4.5 Graphic Design</p> <p>Information Technology</p>	<p>1. Create an icon using different shapes and fill tools. (Activity 1)</p> <p>2. Combine shapes and lines, then arrange them in front/behind each other. (Activity 2)</p> <p>3. Combine shapes, colour and text to re-create an icon. (Activity 3)</p> <p>4. Change the colour, size and style of text to match an icon, then arrange images and use masking and opacity tools. (Activity 4)</p>	<p>Activity 1. Mail Icon - In this activity you will learn how to add shapes and resize them to create a mail icon. Use the videos for the software you are using below.</p> <p>Activity 2. Clock/watch icon - In this activity you will learn how to resize, fill and arrange shapes to recreate a clock or watch icon.</p> <p>Activity 3. London Underground Logo - In this activity you will learn how to use shapes, fill tools and text to re-create the London Underground logo</p> <p>Activity 4. Google Logo - In this activity you will learn how to re-create the Google logo using text. Then add images behind the logo to create a theme for a famous event. e.g World Book Day. You can choose the theme for your logo.</p>
<p>4.6 Video Editing</p> <p>Information Technology</p>	<p>Add scene images.</p> <p>Add scripted voiceover audio, adjust the volume and crop clips (including splitting a clip).</p> <p>Add more clips and use transition effects.</p> <p>Add titles.</p> <p>Use elements such as shapes.</p> <p>Add music background music and adjust the volume.</p> <p>Export a project.</p>	<p>The activity pack guides pupils through creating a video guide to software such as Scratch, using the built-in image search. Pupils can work at their own pace and should be encouraged to experiment with the different tools.</p>
<p>4.7 Inside a computer NC (d)</p> <p>Digital Literacy</p>	<p>Understand what important parts of inside a computer or mobile device do to help with the performance (CPU, Fan, Hard Drive, RAM, Graphics Card).</p> <p>Understand that memory is measured in bytes and gigabytes. Use search filters on websites to find suitable information.</p>	<p>The videos and activities below help pupils understand how important parts inside a computer make it function. The videos cover the CPU, Fan, Hard Drive and RAM. The graphics card is also described.</p>
<p>4.8 Create an Ebook</p>	<p>Add page colour and style</p> <p>Add, position and format text on different pages</p> <p>Add and position images from camera/web</p>	<p>The activity pack guides pupils through creating an interactive book library of books on any subject the teacher wishes so teachers will</p>

Information Technology	Add audio, including hiding it behind an object. Add hyperlinks to text and images Add and format shapes Use hyperlinks for navigation Add audio to pages	need to think about what books they would like to review before they start.
YEAR 5 PROGRAM OF STUDY		
Unit	Learning Intentions	Outline of suggested Program of Study. Full plans at ilearn2.co.uk
5.E E-Safety NC (e, g) Digital Literacy	Keep personal information private – Respect and protect against online bullies – Understand the consequences of sharing photo/videos online – Understand the term <i>digital footprint</i> – How can we check online content is trustworthy? – How and where and who can we report concerns we have to?	Children will explore terms relating to online safety, such as <u>Personal information/privacy</u> , <u>Cyber-bullying</u> , <u>Sharing</u> , <u>Digital footprint</u> , <u>Trust</u> and <u>Report</u> . Children will watch age-appropriate clips to find out more about online safety and complete assessments to check their knowledge, which will have built up across the years. Children are reassured what to do if issues occur and are signposted to who to speak to in those situations.
5.1 Programming in Scratch NC (a, b, c) Computer Science	1. Program inputs for control, selection (conditions) and sensing for interaction and data variables for scoring and a game timer. (Activity 1) 2. Program distance sensing and movement. (Activity 2) 3. Program Inputs, outputs, loops, selection, sensing and variables. (Activity 3) 4. Program list variables that chooses randomly. (Activity 4)	Activity 1. Write a program with inputs, movement, selection, sensing and data variables. Activity 2. Program distance sensing and movement (Virtual Robot) Activity 3. Program Inputs, outputs, loops, selection, sensing and variables. (Extension) Activity 4. Program list variables that chooses randomly.
5.2 APP Design NC (f) Information Technology	Use the tools in different presentation software (PowerPoint, Keynote, Google Slides) to design an app about your school with: – <i>Slide size and background colour</i> – <i>Text and Images (including transparent images) on different pages</i>	Activity 1. Slide size and colour Activity 2. Text and Images Activity 3. Icons and Text Activity 4. Other Slides Activity 5. Create navigation using hyperlinks

	<ul style="list-style-type: none"> - <i>Icons</i> - <i>Interactions using hyperlinks</i> 	
5.3 Text Based Programming NC (a, b, c) Computer Science	Change the variables of text-based commands. (Activity 1) Write text-based commands accurately and use fill effects, stamps and functions. (Activity 2). Write text-based commands to program digital art. (Activity 3 Write text commands/functions to program keyboard inputs in a game. (Activity 4) Programming a Logo turtle to move and use pen (Activity 6, lesson 1 an Use co-ordinates in with a Logo turtle (Activity 5, lesson 3 and 4 Print labels in Logo. (Activity 5, lesson 5) Program a loop (repetition) and shapes in Logo Turtle. (Activity 5, lesson 6 and 7) Program colours in Logo turtle. (Activity 5, lesson 10) Program variables in Logo turtle. (Activity 5, lesson 11)	Pupils are introduced to text-based programming and how it is different to using code blocks (such as Scratch). These activities will prepare pupils for the accuracy required for HTML and Python programming.
5.4 Data Handling NC (f) Information Technology	*From Maths NC expectations* Solve comparison, sum and difference problems using information presented in a line graph Complete, read and interpret information in tables. Search a database for specific information. (Activity 2)	*See OneNote for plans and videos* Session 1: Children to create their own line graph from data presented in a table, then answer comparison, sum and difference questions with increasing difficulty. Session 2: As shown on ilearn2. Children to search a database to retrieve answers for questions from a variety of data sources, including tables and pie charts.
5.5 Music Creation Information Technology	Layer tracks using sounds and effects. (BeepBox activity) Create effective instrument tracks. (Sampulator activity and first two GarageBand activities)	This activity pack guides pupils through using two online music creation tools (Beepbox and Sampulator) to create multi-tracked sounds. Beebox also teaches pupils how to add effects.
5.6a Ebook Creation	Add page colour and style Add, position and format text on different pages Add and position images	<ol style="list-style-type: none"> 1. Front Cover with background colour, text and an image. 2. Question page 3. Answer pages

<p>Information Technology</p>	<p>Add audio, including hiding it behind an object. Add hyperlinks to text and images Search for shapes Lock and arrange shapes (extension task)</p>	<p>4. Hyperlinks</p>
<p>5.7 Computer Networks and the Internet NC (d)</p> <p>Digital Literacy</p>	<p>1. Understand Computer Networks, Internet and Cloud Computing and how they help us. 2. What is email and how can we use it safely? 3. Understand how and why we collaborate online (including blogging).</p>	<p>Lesson 1. Understand Computer Networks, Internet and Cloud Computing Lesson 2 – What is email and how can we use it safely? Lesson 3 – How and why can we collaborate online?</p>
<p>5.8. Typing</p> <p>Information Technology</p>	<p>Children learn techniques for more accurate typing, touch typing and keyboard shortcuts. This helps them to become more efficient and accurate with their computer usage.</p>	<p>1. The Computer Keyboard 2. Use correct hand position and fingers for touch typing 3. Develop and assess touch typing skills</p>
<p>YEAR 6 PROGRAM OF STUDY</p>		
<p>Unit</p>	<p>Learning Intention</p>	<p>Outline of suggested Program of Study. Full plans at ilearn2.co.uk</p>
<p>6.E E-Safety NC (e, g)</p> <p>Digital Literacy</p>	<p>Keep personal information private – Respect and protect against online bullies – Understand the consequences of sharing photo/videos online – Understand the term <i>digital footprint</i> – How can we check online content is trustworthy? – How and where and who can we report concerns we have to?</p>	<p>Children will explore terms relating to online safety, such as <u>Personal information/privacy</u>, <u>Cyber-bullying</u>, <u>Sharing</u>, <u>Digital footprint</u>, <u>Trust</u> and <u>Report</u>. Children will watch age-appropriate clips to find out more about online safety and complete assessments to check their knowledge, which will have built up across the years. Children are reassured what to do if issues occur and are signposted to who to speak to in those situations.</p>
<p>6.1</p>	<p>1. Program inputs, selection, loops and random variables (operators) for unpredictability. (Scratch Space Activity 1)</p>	<p>Pupil Activity 1. Program inputs, selection (conditions), loops and random variables (operators) for unpredictability.</p>

<p>Programming in Scratch NC (a, b, c)</p> <p>Computer Science</p>	<p>2. Program inputs, selection (conditions), sensing, random variables, operators for direction and data variables for scoring. (Scratch Tennis Activity 2)</p> <p>3. Use inputs, selection (conditions), loops, sensing, costume changes and broadcasts. (Scratch Paint Activity 3)</p> <p>4. Work with multiple sprites to send broadcast messages between them. (Scratch Phone Simulator Activity 4)</p>	<p>Pupil Activity 2. Program inputs, selection (conditions), sensing, random variables, operators for direction and data variables for scoring.</p> <p>Pupil Activity 3. Use inputs, conditions (selection), loops, sensing, costume changes and broadcasts.</p> <p>Pupil Activity 4. Work with multiple sprites to send broadcast messages between them.</p>
<p>6.2 Computers: Past, Present and Future</p> <p>Information Technology</p>	<p>Design and create digital content to accomplish goals Use search technologies effectively and be discerning in evaluating digital content Understand how technology has changed over time and represent it as an interactive timeline. Understand the impact (positive/negative) technological changes have on society. Predict how technology will change in the future.</p>	<p>Pupil Activity 1 – Computers (Present)</p> <p>Pupil Activity 2 – Computers (Past)</p> <p>Pupil Activity 3 – Computers (Future) – Group and class discussion task</p>
<p>6.3 Binary Code NC (d)</p> <p>Digital Literacy</p>	<p>1. Understand why computers/electronics use binary. 2. Match a sequence of binary code to create digital art. 3. To convert binary code to denary numbers (decimal numbers) and visa versa.</p>	<p>1. What is Binary Code? 2. Binary Mosaics 3. Cisco Binary 4. Binary Bonanza</p>
<p>6.4 Programming in Python NC (a, b, c)</p> <p>Computer Science</p>	<p>Use an online Python editor to program in Python, including:</p> <ul style="list-style-type: none"> - Write basic python syntax - Print text - Use Python as a calculator - Program loops to repeat text - Program interactive inputs 	<p>1. Use Python Syntax 2. Print text 3. Calculator 4. Loops 5. Interactive Inputs 6. Times table input ranges</p>

	– Program a trivia chatbot using ‘send message’ functions (challenge)	
6.5 HTML Computer Science	<ol style="list-style-type: none"> 1. Add and align text and change colour. 2. Program background colour. 3. Add and align images. 4. Add hyperlinks to other websites. 5. Add an iframe (such as a Google Map) and adjust the height and width. 	<ol style="list-style-type: none"> 1. Creating a HTML Project and adding the <body> 2. Aligning Text 3. Formatting Text 4. Background Colours 5. Text Colours 6. Hexadecimal Colours 7. Adding Images 8. Hyperlinks 9. Iframes
6.6 Machine Learning and Artificial Intelligence Digital Literacy	<ol style="list-style-type: none"> 1. Understand how computers use information to learn by solving new problems and following new instructions. 2. Understand and use examples of machine learning. 3. Understand how artificial intelligence is used to perform tasks often only performed by humans. 4. Discuss and show awareness of potential dangers of AI. 	<p>Activity 1 – Cartoonify</p> <p>Activity 2 – Quick, Draw</p> <p>Activity 3 – Semantris Word Association</p> <p>Activity 4 – AI Piano Duet</p>
6.7 Web design NC (P) Information Technology	<ol style="list-style-type: none"> 1. Create a static homepage. 2. Choose a suitable theme for your website. 3. Change the site identity to a suitable title, tagline and website icon. 4. Upload a suitable header and/or background image. 5. Adjust the website sidebar and add suitable widgets. 6. Add text and images to a page and edit them. 7. Add multiple pages and edit the navigation, including sub-menus. 8. Provide constructive feedback for your classmates’ websites. 	<ol style="list-style-type: none"> 1. The WordPress dashboard 2. Create a static homepage 3. Themes 4. Site identity 5. Header and background images 6. Sidebars, widgets and mobile view. 7. Text and Images 8. More pages and navigation 9. Feedback
6.8 Graphic design	<p>Add, adjust and fill shapes</p> <p>Group shapes to improve accuracy and speed</p>	<p>Pupil Activity 1. Calculator Icon</p> <p>Pupil Activity 2. Weather Icon</p>

<p>NC (P)</p> <p>Information Technology</p>	<p>Add and customise gradient effects Adjust transparency/opacity for a purpose Use a colour picker correctly (Keynote and PowerPoint only) Accurately rotate shapes</p>	<p>Pupil Activity 3. Photos App Icon Challenge Once you have mastered the different skills above, could you design your own app icon for your school, sports team, product etc that includes the following: - Shapes with gradient fill - Transparency/opacity effects - Rotated shapes</p>
<p>6.9</p> <p>Image Editing</p> <p>Information Technology</p>	<p>1. Adjust the colours, brightness and contrast to improve a photo. 2. Create a before and after slide in presentation software. 3. Take and crop a screenshot. 4. Add drawing and text layers. 5. Import new images as layers and resize them to fit.</p>	<p>1. Adjust colours, contrast and brightness to improve an image 2. Taking a screenshot 3. Import your screenshot, crop and ratios 4. Add text and drawing layers 5. Add image layers 6. Save</p>
<p>6.10 Data Handling</p> <p>Information Technology</p>	<p>*From Maths NC expectations* Interpret and construct pie charts and line graphs and use these to solve problems Calculate and interpret the mean as an average</p>	<p>*See OneNote for plans and videos* Session 1: Children to create their own line graph from data presented in a table, then interpret and use it to solve problems with increasing difficulty. Session 2: Children to use formula to work out the mean of a data set, with increasing difficulty. Session 3: Children to create their own pie chart from data presented in a table, then interpret and use it to solve problems with increasing difficulty.</p>

<p>Long Term Plan</p>	
<p>Year 3</p>	
<p>Autumn 1 – E-Safety</p>	

<p>Throughout the rest of the year, Year 3 <u>will</u> cover digital art, programming in Scratch, music creation, document editing and creation and 3D design. They <u>may</u> cover programming in Kodu, infographics and branching databases.</p>
<p>Year 4</p>
<p>Autumn 1 – E-Safety</p> <p>Throughout the rest of the year, Year 4 <u>will</u> cover graphic design, programming in Scratch, internet research, data handling and inside a computer. They <u>may</u> cover animation, video editing and eBook creation.</p>
<p>Year 5</p>
<p>Autumn 1 – E-Safety</p> <p>Throughout the rest of the year, Year 5 <u>will</u> cover programming in Scratch, APP design, text-based programming, data handling and computer networks and the internet. They <u>may</u> cover music creation, eBook creation and typing.</p>
<p>Year 6</p>
<p>Autumn 1 – E-Safety</p> <p>Throughout the rest of the year, Year 6 <u>will</u> cover programming in Scratch, binary code, programming in Python, web design and graphic design. They <u>may</u> cover computers: past present and future, HTML, machine learning and artificial intelligence and image editing.</p>
<p>Assessment</p>
<p>At OCJS, all of our Foundation Assessments are recorded centrally through one Excel document in order to make it clear and accessible to all teaching staff.</p> <p>In Computing, we assess children’s progress through their contributions to class discussions and the work they produce. Each unit is split into a lesson-specific success criteria and children are marked as having achieved the criteria, achieved it with support, or not achieved. This is monitored by the Subject Lead in order to judge if there are any gaps in knowledge which need addressing or filling in future lessons. These judgements against the lesson (and unit) specific success criteria then feed into an end of year teacher assessment for each individual being Working Towards, Expected, or Greater Depth.</p>

Appendix I

Key Subject Specific Vocabulary by Year Group

Year 3

- 3.E - personal information, sharing, permission, report, trust, respect
- 3.1 - rotation, zoom, flip, symmetry, stamp, gif
- 3.2 - sprite, stage, sequence, debug, loops or repetition, inputs
- 3.3 - scales, chords, arpeggio, bars and beats, sampled sound, effects
- 3.4 - navigate, terrain, object, input, condition, program, selection
- 3.5 - word processor, find and replace, format, text wrapping, bullet points, keyboard shortcuts
- 3.6 - 3D, rotate, zoom, grid, chisel, hammer and trowel, spray, bucket
- 3.7 - infographics, graphic elements, text
- 3.8 - branching database, data, sort, classify, yes/no questions
- 3.9 - cell, pictogram, data set, bar chart, axis

Year 4

- 4.E - personal information, sharing, permission, report, trust, respect
- 4.1 - frame, clone, onion skin, timeline, frame rate, transition, gif
- 4.2 - inputs, selection, sensing, variables, debug
- 4.3 - internet browser, search engine, web-address and address bar, www, ranking
- 4.4 - spreadsheet, cell, bar chart, time graph, discrete, continuous, data
- 4.5 - shapes, arrange, fill, text, masking, transparency/opacity
- 4.6 - clips, timelines, split, transitions, titles, voiceover, export
- 4.7 - core processing unit (CPU), fan, hard drive, random access memory (RAM), graphics card
- 4.8 - page shape, content, inspector, hyperlink, preview

Year 5

- 5.E – personal information, sharing, digital footprint, report, trust, respect, in-app purchasing
- 5.1 – inputs, selection, sensing, variables, debug
- 5.2 – screen dimensions, icons, navigation, hyperlinks, duplicate
- 5.3 – javascript, logo, function, loops or repetition, variables
- 5.4 – spreadsheet, cell, database, record, field, sort, line graph
- 5.5 – multi-track, bars and beats, sampled effects, tracks
- 5.6a – page shape, content, inspector, hyperlink, preview
- 5.6b – clips, timelines, split, transitions, titles, voiceover, export
- 5.7 – server, router, firewall, IP address, wireless access point (WAP), cloud computing
- 5.8 – touch typing, keys, hand position, muscle memory

Year 6

- 6.E – personal information, sharing, digital footprint, report, trust, respect, in-app purchasing
- 6.1 – inputs, operators, sensing, variables, broadcasts
- 6.2 – binary, microchip, Apple, Microsoft
- 6.3 – binary, denary numbers, translate/covert
- 6.4 – syntax, print, range
- 6.5 – hyperlinks, tags, hexadecimal colours
- 6.6 – machine learning, artificial intelligence
- 6.7 – Wordpress, static page, theme, header, sidebar, widgets, navigation, domain name
- 6.8 – grouping, gradient, transparency/opacity, colour picker, arrange
- 6.9 – crop, aspect ratio, filters, colour editing, light editing
- 6.10 – spreadsheet, cell, line graph, interpret, mean, average, formula, pie chart

Appendix II

Examples of Big Questions by Year Group

Teachers will occasionally use higher order questioning during and at the end of units (if and when deemed necessary) to assess the depth of pupil understanding. Below are some examples of the type of 'Big Questions' that teacher may use but these may be changed depending of the interests and level of understanding of the class. These are not expected to be used for every unit.

Year 3**Communication and E-Safety**

Why do you need to tell an adult if you feel uncomfortable with something online?

How is a face to face conversation different to a text conversation?

Describe acceptable and unacceptable online behaviour? Why?

Programming

What happens if you make a mistake when you are coding?

What might happen if the mars rover has an error in its programming?

Arts and Music

Why is it entertaining to watch people play a game?

Why is playing a game a good way of learning?

Which games are educational?

Can games ever be a waste of time?

Year 4**Communication and E-Safety**

How might you keep your identity safe online?

Why might someone try to get hold of your details?

How might technology make our lives easier in the future?

Programming

How might you realise that you've made an error in programming?

What's better, pre-programming or controlling in real time?

Arts and Music

Should people have to tell people if they have edited an image of themselves?

Is live music better than recorded?

Who owns music?

What is lost in recorded music?

Year 5

Communication and E-Safety

Will we need teachers in the future?

Is it okay to take and post pictures of people without them know? Why?

How would you explain e-safety to a younger child?

Why is it important to understand what is happening to our data?

What is the internet?

Programming

How can you make this programme more efficient?

How might an over reliance on robots be a problem?

Would it be okay to make robot clones of yourself to do the things you don't want to do?

Could you be tricked into believing a robot is a person?

Arts and Music

Can nature be equalled by a programme?

Who owns art?

Can an art be produced by a computer?

Is architecture art?

Can you live in an online world?

Year 6

Communication and E-Safety

How might technology change our lives for the worse?

Is it okay to use other people's images? Why?

Should everything online be permanent or disappear?

How might filters be useful?

Programming

Are robots alive?

If you replace the parts of a person with robotic parts will they still be human?

How does autonomous programming effect our lives?

Arts and Music

Is there artistry in game play?
Why do we advertise?
What are the advantages and disadvantages of making APPs free to all?
What are the ethics around tracking others using GPS?

Appendix III - Suggested Possible Subject Links

Below are ideas for cross- curriculum links to other subjects. Teachers know their classes the best and will choose when these links are meaningful and timely. Some links may be made explicitly whereas others may be more implicit. Possible writing opportunities are highlighted in blue.

Year 3

- Art and DT
 - o Children design their own wrapping paper (3.1). This could link into Art and DT lessons as they could link designs to previous art work or use the wrapping paper they create within a DT project.
- Maths
 - o The use of rotation, transformation and symmetry (3.1) links in to Maths lessons on shape. Children can draw on their previous skills and knowledge from these areas and link them to this Computing unit and some Maths units.
 - o The use of 3D modelling (3.6) can aid children's understanding of 2D and 3D shapes and the uses they have.
- Geography
 - o Children have the opportunity to create their own interactive map (3.2) which could be linked back to their Geography units. This could be used as a way to assess the level of children's knowledge and retention of key geographical facts.
- PSHE
 - o Children have the opportunity to create programs within Scratch which link to real-life scenarios (3.2). This could link to discussions and learning about friendships and events in the real world.
 - o E-Safety plays a vital role in our PSHE curriculum, encouraging them to use the internet and electronics safely and educating them on where to go if they are unsure (3.E)
- Music
 - o Unit 3.3 links directly to the music curriculum. Children learn technical vocabulary which can then be used and referred to within music lessons.
- English
 - o Children learn how to type and present pieces of writing effectively (3.5). These skills can then be used to type up pieces of writing completed with English sessions.
 - o Children can use their spoken language skills to perform the poems which they have processed on word, building on their confidence and performance skills.
- Science
 - o Links can be made to the requirement for working scientifically (3.8); in particular, making systematic and careful observations, along with classifying different organisms.
- Unit 3.7 can have many cross-curricular links as children can use these skills to demonstrate their knowledge and retention of facts from units across the entire curriculum.
- Programming within both Scratch and Kodu present many applications and uses across much of the curriculum, due to the range of processes and applications within these programs.

Year 4

- English
 - Children are able to use their story-telling skills (4.1).
 - They could use animation skills to retell a story they are studying in English lessons (4.1).
 - As with any text-based coding, spelling, punctuation and grammar are important. (4.2).
 - Children can use their research skills to create a presentation on a topic of their choice. Presenting this to the class could link in with their verbal and oral literary skills (4.3)
 - Children write their own script to work as a voiceover for a film (4.6).
 - Children have the opportunity to write their own eBook. In this they will need to carefully consider their spelling, punctuation and grammar (4.8).
- Science
 - Children can use animation skills to capture different processes within Science, such as life cycles (4.1)
 - Work can be linked to the beating heart (4.1), linking to Science work on the human body and other animals.
 - Children have the opportunity to research areas of interest and study, linked to their Science work (4.3)
 - Children have the opportunity to complete activities linked to animals and their habitats (4.4)
- Humanities
 - Children have the opportunity to create an animated map (4.1), this could link in with an area of study within Geography.
 - Children have the opportunity to research areas of interest and study, linked to their Humanities work (4.3)
- Maths
 - Children have the opportunity to create games and activities linked to their times tables (4.4).
 - Data is a key part of the Maths curriculum. Work across Computing (4.4) and Maths can link back and forth here.
 - Unit 4.4 (Data handling) has been specifically created to match up with the Maths Curriculum and aid in the coverage of the statistics objectives.
- PSHE
 - E-Safety plays a vital role in our PSHE curriculum, encouraging them to use the internet and electronics safely and educating them on where to go if they are unsure (4.E)
 - Children have the opportunity to participate in activities linked to real-life scenarios (4.7)
- Unit 4.8 can have many cross-curricular links as children can use these skills to demonstrate their knowledge and retention of facts from units across the entire curriculum.
- Programming within Scratch presents many applications and uses across much of the curriculum, due to the range of processes and applications within it.

Year 5

- PSHE
 - E-Safety plays a vital role in our PSHE curriculum, encouraging them to use the internet and electronics safely and educating them on where to go if they are unsure (5.E). In particular, Year 5 go into the specifics of the safety of sharing photos and what to do if they see something online which makes them feel uncomfortable within the compulsory RSE curriculum.
 - Through their work in Computer Networks (5.7) children grasp a wider understanding of what is happening within their devices and develop further understanding about why e-safety and being cautious with devices is so important.
- English
 - As with any text-based coding, spelling, punctuation and grammar are important (5.1, 5.3).
 - Children have the opportunity to create information pages for the creation of an app (5.2).
 - Children have the opportunity to write their own eBook. In this they will need to carefully consider their spelling, punctuation and grammar (5.6a)
 - Children working on improving their typing skills (5.8) allows them to become increasingly more skilled at different ways of presenting English work in addition to preparing them for future online work.
- Maths
 - Children use their sequencing skills to create a written program (5.3)
 - Data is a key part of the Maths curriculum. Work across Computing (5.4) and Maths can link back and forth here.
 - Unit 5.4 (Data handling) has been specifically created to match up with the Maths Curriculum and aid in the coverage of the statistics objectives.
- Music
 - Children have the opportunity to create their own pieces of music from the production aspect (5.5).
- Humanities
 - Children have the opportunity to research areas of interest and study, linked to their Humanities work (5.6a)
- Unit 5.6a can have many cross-curricular links as children can use these skills to demonstrate their knowledge and retention of facts from units across the entire curriculum.
- Programming within Scratch (5.1) and other text based programming (5.3) presents many applications and uses across much of the curriculum, due to the range of processes and applications within it.

Year 6

- PSHE
 - E-Safety plays a vital role in our PSHE curriculum, encouraging them to use the internet and electronics safely and educating them on where to go if they are unsure (6.E).
 - Through unit 6.6, children are able to have discussions and increase their awareness of Artificial Intelligence and the potential dangers of it.
- English
 - As with any text-based coding, spelling, punctuation and grammar are important (6.1, 6.4).
 - Children have multiple opportunities to create their own website and have to compose their own information to post on this. In addition, they are required to think creatively for a catchy title and tagline for these websites. (6.5, 6.7)
- PE
 - Children are given the opportunity to use their knowledge of various different sports to create their own online versions of these games, thinking carefully about the layout of pitches and how players move (6.1)
- Humanities
 - Children learn about the history of technology and how Computing has changed over time since their initial creation, along with predicting what could be in store for the future (6.2)
- Art and DT
 - Children have the opportunity to create digital art using binary code (6.3)
 - Children have the opportunity to learn all about Graphic Design and what it entails. They recreate their own app icons using online technology (6.8)
 - Children have the opportunity to use their artistic eye to edit an image to improve it. They adjust colour and brightness, crop images and add drawing and text layers (6.9)
- Maths
 - Children learn how to convert binary code to denary (decimal) numbers and vice versa (6.3)
 - Unit 6.10 (Data handling) has been specifically created to match up with the Maths Curriculum and aid in the coverage of the statistics objectives.
- Programming within Scratch (6.1) and other text based programming (6.4) presents many applications and uses across much of the curriculum, due to the range of processes and applications within it.

Appendix IV

Reasonable Adjustments

At Old Catton Junior School, we ensure that every child has access to the curriculum, and are able to reach their potential, regardless of the challenges they may face or the limitations they may have. We ensure that we make reasonable adjustments to our teaching, and to our curriculum, to facilitate all of the types of learners that we teach in our school. Below is a list of some of the many ways in which we make reasonable adjustments to our school as a whole and more specifically, our Computing Curriculum and teaching:

- *Word Banks for pre-learning and to support during topics and themes*
- *Key vocabulary for the session displayed on the board*
- *Learning videos available to watch in small chunks to reduce cognitive overload*
- *Learning videos available for children to watch back if they are struggling*
- *Coloured board backgrounds to minimise visual stress*
- *Breaking down lessons into short, manageable chunks*
- *Mixed ability groups – using peers as support and role models*
- *Adult assistance nearby*
- *Using another student as a reader/support*
- *Printing work larger and in smaller chunks*
- *My Turn/Your Turn*
- *Breaks*
- *Targets made clear for lessons and learning – linked to IEP*
- *Now/Next*
- *Weighted lap/shoulder blanket*
- *Visual Timetables – class and individual*
- *Fidget toys available*
- *Cushions for seats – wobble and wedge cushions*
- *Coloured Overlays and the ability to change screen colours*
- *Headphones/ear defenders*
- *Remembering/'to do' lists*
- *iPad as a translator*
- *iPad to record ideas*
- *Equipment adapted for needs (books, scissors, pencils, whiteboard, pencil grippers)*
- *Changing font size*

- *Word lists of key vocabulary for pre-learning and as prompts*
- *Checking seating position – sight problems – near the back for sensory needs*
- *A safe/quiet space in or near the classroom*
- *Special interest projects linked to and alongside class learning*
- *Sensory time/circuits/sensory room*
- *Reduced timetable*
- *Proud/success book*
- *Extra break time-or break at a different time*
- *Behaviour plans*
- *One Page Pupil Profiles*
- *Resistance bands*
- *Social stories*
- *Extra time for the trickier tasks*
- *Visual and Picture aids*
- *Emotion fans/PATHS cards*
- *Allow talk time for those who find recording difficult*
- *Use of a scribe*
- *Worry monsters and boxes*
- *Time-outs*
- *Simplified work*
- *Keeping instructions short and one at a time*
- *Adjust attainment expectations – P levels, AET targets*
- *Personal calendar/ knowledge planner*
- *Checklists (e.g., going home)*
- *Learning some basics of a language for an EAL pupil*

Curriculum enrichment opportunities for 2022/23

- Collaboration with Taverham High School's Computing Team
 - Staff brought in a mixture of Lego coding blocks, robots and Nintendo Switch for Year 4 and 5 children to explore within a series of workshops
 - As a part of this Bookbugs and Dragontails brought in some books to share with the children, linked to Computing.
- Collaboration with Norfolk Police
 - A session was held for Year 5 and 6 pupils with regards to e-safety, cyber security and positive cyber choices.
- Micro:bits sourced and claimed from BBC Teach
 - Awaiting delivery so these can be actioned into our teaching/clubs.

Curriculum enrichment for 2023/24

- Collaboration with NCC ICT Solutions to attend a Lego Coding workshop, hosted at WWL.
- Micro:bits received and sourced trial lesson materials.