

Wellesbourne Primary and Nursery School Computing Curriculum

Year	Autumn		Spring		Summer	
1	Computer detective 1 The Mouse.	Computer detective 2 The Keyboard.	Kodable Simple coding, instructions.	Photography The world around us.	GarageBand Creating your own song.	Animation The seasons.
2	Touch typing 1 The Home Row.	Lightbot Simple coding and procedures.	Touch typing 2 The Top Row.	Animation Great fire of London.	Touch Typing 3 The Bottom Row.	Photography Nature.
3	Photography British Artists.	Tynker Programming 101.	Animation New Zealand folklore.	Podcasting Stone age – Iron Age.	Presentation Monet.	Garageband The Blues.
4	Photography Portrait and landscape.	Code Combat Python coding.	Garage Band Samba.	Presentation The Tudors.	Animation Normans.	Podcast USA.
5	Garage band Earthquakes and volcanoes.	Scratch Java script coding.	Photography Macro Lenses.	Podcast Rainforest.	Presentation Life Cycles.	Animation Islam.
6	Presentations Maya.	Kodu Creating your own game.	Podcast Transitions and feelings.	Animations Vikings.	Photography Memories.	E-Safety Creating board games.

Key Stage 1 Computing coverage.

Year 1 Coverage:

<u>Units</u>	<u>Links to national Curriculum and Cross-curricular.</u>
<u>Computer Detective 1</u>	<ul style="list-style-type: none">• IT - Pupils will be learning how each individual part of the computer works and how to control it properly• IT - Focusing on the mouse pupils will be using games to improve their control.• DL - Pupils will be using the games responsibly and as they are online, will be gaining responsibility for their online safety. <i>- This links in with PE and gaining the use of fine motor skills.</i>
<u>Computer Detective 2</u>	<ul style="list-style-type: none">• IT – Pupils will be moving their focus to the keyboard this half term.• DL – Through various games pupils will be becoming more familiar as to where each letter is on the keyboard.• DL - Pupils will be using the games responsibly and as they are online, will be gaining responsibility for their online safety - <i>this has links to English, as the term progresses pupils will be using games that will have them typing simple CVC words as well as increasing their typing speed.</i>
<u>Kodable</u>	<ul style="list-style-type: none">• CS – understand what algorithms are; how they are implemented as programs through Kodable• CS – Create and debug simple programs.• DL – Pupils will be learning how to keep their personal information safe online as they will have their own logins to save progress.
<u>Photography</u>	<ul style="list-style-type: none">• IT – Pupils will be learning how to save their work using devices such as iPads and tablets in their own individual folder.• IT – Pupils will be learning how to use the computer to create a collage of their pictures. <i>-This topic links with art and design technology.</i>
<u>Garageband</u>	<ul style="list-style-type: none">• DL – Pupils will be learning about how music technicians work and how they compose and create music using technology.• IT - Pupils will learn how to save their music on the iPads and how it is stored. <i>- This topic links with music.</i>
<u>Animation</u>	<ul style="list-style-type: none">• DL – Pupils will be learning how simple animations are made and how this is used in the movie industry.• IT – Pupils will be learning how animation works by animating inanimate objects. <i>- This topic links with geography and design technology.</i>

Key Stage 1 Computing coverage.

Year 2 Coverage:

<u>Units</u>	<u>Links to national Curriculum and Cross-curricular.</u>
<u>Touch Typing 1</u>	<ul style="list-style-type: none"> • DL – Pupils will be using touch typing to improve their own computer literacy skills learning to use each hand and fingers independently from each other for each letter. • DL – pupils will learn that touch typing is a vital skill that can improve their productivity not only in school but in the wider world. - <i>This topic has links with English and maths due to spelling out words and the speed they type which will slowly increase over time.</i>
<u>Lightbot</u>	<ul style="list-style-type: none"> • CS – Understand what an algorithm is; how it can be used to program characters. • CS - Create and debug simple algorithms to solve levels. • CS - Use logic to try and predict what a simple algorithm will do.
<u>Touch Typing 2</u>	<ul style="list-style-type: none"> • DL – Pupils will be using touch typing to improve their own computer literacy skills learning to use each hand and fingers independently from each other for each letter. - This will now be focusing on the top and home row. Consolidating previous learning and building on it. • DL – pupils will learn that touch typing is a vital skill that can improve their productivity not only in school but in the wider world. - <i>This topic has links with English and maths due to spelling out words and the speed they type which will slowly increase over time.</i>
<u>Animation</u>	<ul style="list-style-type: none"> • DL – Pupils will be learning how simple animations are made and how this is used in the movie industry. • IT – Pupils will be learning how animation works by animating inanimate objects. - <i>This topic links with history and design technology</i>
<u>Touch Typing 3</u>	<ul style="list-style-type: none"> • DL – Pupils will be using touch typing to improve their own computer literacy skills learning to use each hand and fingers independently from each other for each letter. • DL – pupils will learn that touch typing is a vital skill that can improve their productivity not only in school but in the wider world. - <i>This topic has links with English and maths due to spelling out words and the speed they type which will slowly increase over time.</i>
<u>Photography</u>	<ul style="list-style-type: none"> • IT – Pupils will be learning how to save their work using devices such as iPads and tablets in their own individual folder. • IT – Pupils will be learning how to use the computer to create a collage of their pictures. - <i>This topic links with Science.</i>

Key Stage 2 Computing coverage.

Year 3 Coverage:

<u>Units</u>	<u>Links to national Curriculum and Cross-curricular.</u>
<u>Photography</u>	<ul style="list-style-type: none"> • IT – Pupils will be learning how to save their work using a shared folder with class codes and initials. • IT – Pupils will be learning how to use the computer to create an imitation of an artist’s work. • DL – Pupils will be learning to use the internet to research their artist and images of their work. - <i>This has links to Art</i>
<u>Tynker</u>	<ul style="list-style-type: none"> • CS – Understand what an algorithm is; how it can be used to program characters and backgrounds. • CS - Create and debug simple algorithms. Learn to use loops and conditionals to make their codes simpler • CS - Use logic to try and predict what a simple algorithm will do.
<u>Animation</u>	<ul style="list-style-type: none"> • DL– Pupils will be learning how animations are made and how this is used in the movie industry. • IT – Pupils will be learning how animation works by animating characters to create a story. • IT – Pupils will be using New Zealand folklore to recreate a story using computing and animation. - <i>This topic links with Geography and English.</i>
<u>Podcasting</u>	<ul style="list-style-type: none"> • DL – Pupils will be learning about how podcasting came about and how this has developed the radio industry. • DL – Pupils will be using the internet to research their topic and create a short script. • IT – How the radio industry has moved forward using technology. - <i>This has links with history, music and develops English skills.</i>
<u>Presentation</u>	<ul style="list-style-type: none"> • DL – We will be discussing how presentations can be used in and around the world of work and not only in schools. • DL – use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content • DL - use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact. - <i>This has links to Art and History</i>
<u>Garageband</u>	<ul style="list-style-type: none"> • CS - use sequence, selection, and repetition in programs; work with variables and various forms of input and output • CS - select, use and combine a variety of software on a range of digital devices to design a piece of music • DL - use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content – <i>this links with Music and SMSC</i>

Key Stage 2 Computing coverage.

Year 4 Coverage:

<u>Units</u>	<u>Links to national Curriculum and Cross-curricular.</u>
<u>Photography</u>	<ul style="list-style-type: none"> • IT – Pupils will be learning how to save their work using a shared folder with class codes and initials. • IT – Pupils will be learning how to use the computer to create an imitation of an artist’s work. • DL – Pupils will be learning to use the internet to research their artist and images of their work. - <i>This has links to Art, Geography and SMSC</i>
<u>Code Combat</u>	<ul style="list-style-type: none"> • CS - Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts. • CS - Use sequence, selection, and repetition in programs. • CS- Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs. – <i>This has links to Maths and English</i>
<u>Garageband</u>	<ul style="list-style-type: none"> • CS - Use sequence, selection, and repetition in programs; work with variables and various forms of input and output. • CS - Select, use and combine a variety of software on a range of digital devices to design a piece of music. • DL - Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content – <i>This links to Music, Science and Geography</i>
<u>Presentation</u>	<ul style="list-style-type: none"> • DL – We will be discussing how presentations can be used in and around the world of work and not only in schools. • DL – Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content. • DL - use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact. - <i>This has links to History and English</i>
<u>Animation</u>	<ul style="list-style-type: none"> • DL– Pupils will be learning how animations are made and how this is used in the movie industry. • IT – Pupils will be learning how animation works by animating characters to create a story. • IT – Pupils will be using the internet to research and to recreate a story using computing and animation. - <i>This topic links to Geography and English</i>
<u>Podcast</u>	<ul style="list-style-type: none"> • DL – Pupils will be learning about how podcasting came about and how this has developed the radio industry. • DL – Pupils will be using the internet to research their topic and create a short script. • IT – How the radio industry has moved forward using technology. <i>This has links to Geography, Music and English.</i>

Key Stage 2 Computing coverage.

Year 5 Coverage:

<u>Units</u>	<u>Links to national Curriculum and Cross-curricular.</u>
<u>Garageband</u>	<ul style="list-style-type: none"> • CS - Use sequence, selection, and repetition in programs; work with variables and various forms of input and output. • CS - Select, use and combine a variety of software on a range of digital devices to design a piece of music. • DL - Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content • DL -Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact <p><i>This links to Music, Science and Geography</i></p>
<u>Scratch</u>	<ul style="list-style-type: none"> • CS - Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts. • CS - Use sequence, selection, and repetition in programs. • CS- Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs. • CS – How do computer games work? – <i>This has links to Maths and English</i>
<u>Photography</u>	<ul style="list-style-type: none"> • IT – Pupils will be learning how to save their work using a shared folder with class codes and initials. • IT – Pupils will be learning how to use the computer to create an imitation of an artist’s work. • CS – How has technology developed to allow us to create and take pictures such as this? - <i>This has links to Art, Geography and Science</i>
<u>Podcast</u>	<ul style="list-style-type: none"> • DL – Pupils will be learning about how podcasting came about and how this has developed the radio industry. • DL – Pupils will be using the internet to research their topic and create a short script. • IT – How the radio industry has moved forward using technology. • CS - 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, including collecting, analysing, evaluating and presenting data and information <i>This has links to Geography, Music and English.</i>
<u>Presentation</u>	<ul style="list-style-type: none"> • DL – We will be discussing how presentations can be used in and around the world of work and not only in schools. • DL – Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content. • DL - use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact. - <i>This has links to Science and English</i>
<u>Animation</u>	<ul style="list-style-type: none"> • DL– Pupils will be learning how animations are made and how this is used in the movie industry. • IT – Pupils will be learning about the different types of animation available. • IT – Pupils will be learning how animation works by animating drawings on whiteboards to create a story. • IT – Pupils will be using the internet to research and to recreate a story using computing and animation. - <i>This topic links to Religious studies and English</i>

Key Stage 2 Computing coverage.

Year 6 Coverage:

<u>Units</u>	<u>Links to national Curriculum and Cross-curricular.</u>
<u>Presentation</u>	<ul style="list-style-type: none"> • DL – We will be discussing how presentations can be used in and around the world of work and not only in schools. • DL – Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content. • DL - use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact. • IT – How to save your work and be able to find it next time. - <i>This has links to History and English</i>
<u>Kodu</u>	<ul style="list-style-type: none"> • CS - Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts. • CS - Use sequence, selection, and repetition in programs. • CS- Use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs. • CS – How do computer games work? • CS - 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>This has links to Maths and English</i>
<u>Podcast</u>	<ul style="list-style-type: none"> • DL – Pupils will be learning about how podcasting came about and how this has developed the radio industry. • DL –Pupils will be using the internet to research their topic and create a short script. • IT – How the radio industry has moved forward using technology. • CS - 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, including collecting, analysing, evaluating and presenting data and information -<i>This has links to SMSC, Music and English.</i>
<u>Animation</u>	<ul style="list-style-type: none"> • DL– Pupils will be learning how animations are made and how this is used in the movie industry. • IT – Pupils will be learning about the different types of animation available. • IT – Pupils will be learning how animation works by animating characters to create a story using a green screen. • IT – Pupils will be using the internet to research and to recreate a story using computing and animation. - <i>This topic links to History and English</i>
<u>Photography</u>	<ul style="list-style-type: none"> • IT – Pupils will be learning how to save their work using a shared folder with class codes and initials. • IT – Pupils will be learning how to use the computer to create an imitation of an artist’s work. • DL – Pupils will be learning how to transfer and upload pictures from one digital source to another. • CS – How has technology developed to allow us to create and take pictures such as this? - <i>This has links to Art, SMSC</i>
<u>E-Safety</u>	<ul style="list-style-type: none"> • IT - Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content. • CS - 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, including collecting, analysing, evaluating and presenting data and information. • DL - 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 • DL - Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact

