

# Computing Long Term



**LONG DITTON**  
INFANT AND NURSERY SCHOOL  
THE HEART OF LONG DITTON SINCE 1911



# Planning

## Overview

	<b>AUTUMN</b>	<b>SPRING</b>	<b>SUMMER</b>
<b>NURSERY</b>	<p><u>Assessment</u> Technology 22 - 36 Months</p> <ul style="list-style-type: none"> <li>• Seeks to acquire basic skills in turning on and operating some ICT equipment</li> <li>• Operates mechanical toys, e.g. turns the knob on a wind-up toy or pulls back on a friction car</li> </ul> <p>• Show an interest in ICT</p>	<p><u>Assessment</u> Technology 22 - 36 Months</p> <ul style="list-style-type: none"> <li>• Seeks to acquire basic skills in turning on and operating some ICT equipment</li> <li>• Operates mechanical toys, e.g. turns the knob on a wind-up toy or pulls back on a friction car</li> <li>• Using a Keyboard and developing familiarity with letters and using the mouse.</li> </ul>	<p><u>Assessment</u> Technology 30 - 50 Months</p> <ul style="list-style-type: none"> <li>• Knows how to operate simple equipment, e.g. turns on CD player and uses remote control</li> <li>• Shows an interest in technological toys with knobs or pulleys, or real objects such as cameras or mobile phones</li> <li>• Shows skill in making toys work by pressing parts or lifting flaps to achieve</li> </ul>

	<ul style="list-style-type: none"> <li>• Seek to acquire basic skills in turning on and operating some ICT equipment. <ul style="list-style-type: none"> <li>• Maths City 1</li> <li>• Colour magic - Paint a picture of their face</li> <li>• using phone, keyboard, and clipboards</li> <li>• To know the terms monitor, screen, icons: fill and spray can, brush, pencil</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>• Bee Bot - giving instructions to move forwards and backwards, give a sequence of instructions</li> </ul>	<p><b>effects such as sound, movements or new images</b></p> <ul style="list-style-type: none"> <li>• Knows that information can be retrieved from computers</li> <li>• Using and completing a computer game/activity</li> <li>• How to be safe on the internet</li> <li>• Using the interactive whiteboard</li> </ul>
<b>RECEPTION</b>	<p><u>Assessment Technology</u> 22 - 36 Months</p> <ul style="list-style-type: none"> <li>• Seeks to acquire basic skills in turning on and operating some ICT equipment</li> <li>• Operates mechanical toys, e.g. turns the knob on a wind-up toy or pulls back on a friction car</li> </ul> <p>30 - 50 Months</p> <ul style="list-style-type: none"> <li>• Knows how to operate simple equipment, e.g. turns on CD player and uses remote control</li> </ul>	<p><u>Assessment Technology</u> 30 - 50 Months</p> <ul style="list-style-type: none"> <li>• Knows how to operate simple equipment, e.g. turns on CD player and uses remote control</li> <li>• Shows an interest in technological toys with knobs or pulleys, or real objects such as cameras or mobile phones</li> <li>• Shows skill in making toys work by pressing parts or lifting flaps to achieve</li> </ul>	<p><u>Assessment Technology</u> 40 - 60 + Months</p> <ul style="list-style-type: none"> <li>• Completes a simple programme on a computer</li> <li>• Uses ICT hardware to interact with age-appropriate computer software</li> <li>• Using Beebots</li> <li>• Painting a picture with purpose in mind</li> </ul> <p>Early Learning Goal Children recognise that a range of technology is used in places such as homes and schools. They</p>

	<ul style="list-style-type: none"> <li>• Shows an interest in technological toys with knobs or pulleys, or real objects such as cameras or mobile phones</li> <li>• Shows skill in making toys work by pressing parts or lifting flaps to achieve effects such as sound, movements or new images</li> <li>• Knows that information can be retrieved from computers</li> <li>• ipads</li> <li>• Using 2simple city</li> <li>• Using a mouse</li> </ul> <p><b>E-safety</b> For children to know the school e-safety rules and to know where to find them in their classroom.</p>	<p>effects such as sound, movements or new images</p> <ul style="list-style-type: none"> <li>• Knows that information can be retrieved from computers</li> <li>• Login</li> <li>• Pictogram</li> </ul> <p><b>E-safety</b> Children are aware that they can use the internet to play and learn, supported by a trusted adult/teacher.</p> <p>Children begin to understand the difference between real and online experiences. Tell an adult if you have any concerns</p>	<p>select and use technology for particular purposes</p> <p><u>Planning</u> <b>E-safety</b> Children know that they can use the Internet to communicate with family and friends.</p> <p>For children to understand the importance of politeness and courtesy on and off the internet. Children will be aware of how to keep safe and what to do if they are concerned.</p>
<p><b>YEAR 1</b></p>	<p>Autumn Term</p> <ul style="list-style-type: none"> <li>• To know the school e-safety rules.</li> <li>• To know how to open and close programs</li> </ul>	<p>Spring Term</p> <ul style="list-style-type: none"> <li>• To use chrome books</li> <li>• To use 2Graph to create a bar chart</li> <li>• To use the mouse to select appropriate tools</li> </ul>	<p>Summer Term</p> <ul style="list-style-type: none"> <li>• To use caps lock on the keyboard.</li> <li>• To use 2music to create a musical score</li> <li>• To use 2animate</li> </ul>

	<ul style="list-style-type: none"> <li>• To know how to use a mouse to select and move items on the screen</li> <li>• To know how to save my picture on the computer.</li> <li>• To know how to print my work</li> <li>• To be able to talk about the uses of ICT inside and outside school.</li> <li>• To know how to use Purple mash</li> <li>• To be able to plan and give instructions to make things happen using 2controlNXT and BeeBots</li> <li>• To using text to develop our work using the keyboard</li> <li>• To present our work effectively using different colours and fonts</li> <li>• To use 2paint to create a picture</li> <li>• To use 2create a story</li> <li>• To be able to try things out and explore what happens in real and imaginary situations</li> <li>• Purple mash</li> </ul> <p><u>E-safety</u></p>	<ul style="list-style-type: none"> <li>• To use 2Paint to create a picture</li> <li>• To program a BeeBot to follow a set route</li> <li>• To navigate around the different learning areas in Education City</li> <li>• To use PowerPoint to create a simple one slide presentation.</li> <li>• Book week - To use webcam to create an author profile</li> <li>• To sequence events on MyWorld - Science link to plants</li> <li>• To use MyWorld to label parts of the body - link to Science</li> <li>• To use webcam to create a poster</li> </ul> <p><u>E-safety</u> Children know that there are a variety of online tools that can be used to communicate with other people.</p> <p>Children begin to understand the importance of being kind and polite online</p> <p><u>2015</u></p>	<ul style="list-style-type: none"> <li>• To create a game using a computer</li> <li>• To use 2publish to create a postcode</li> <li>• To use the mouse to select appropriate tools</li> <li>• To create our own comic strip on 2publish</li> <li>• To program a BeeBot to follow a set route.</li> <li>• To use 2publish to create a newspaper article</li> <li>• Coding - To make something move using a code</li> </ul> <p><u>E-safety</u> Children begin to identify characteristics of people who are worthy of their trust.</p> <p>Children know what is meant by personal information and develop awareness of why it is special.</p> <p>Children know what action to take if they feel unsure about something.</p> <p><u>2015</u></p>
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	<p>Children understand that they can find a range of information on the internet.</p> <p>Children are able to navigate age-appropriate websites.</p> <p>Children know what to do if they find something inappropriate online.</p> <p>Children begin to appreciate the uses of ICT inside and outside of school and to use it respectfully and responsibly.</p> <p><u>2015</u> Use technology safely and respectfully, keeping personal information private and identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies.</p> <p>Recognise common uses of information technology beyond school.</p>	<p>Use technology safely and respectfully, keeping personal information private and identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies.</p> <p>Use technology to create, organise, store, manipulate and retrieve digital content.</p> <p>Create and debug simple programs (espresso coding).</p>	<p>Use technology safely and respectfully, keeping personal information private and identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies.</p> <p>Understand what algorithms are, how they are implemented as programs on digital devices, and that programs execute by following precise and unambiguous instructions.</p> <p>Use logical reasoning to predict the behaviour of simple programs.</p>
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## YEAR 2

### Autumn Term

- To log onto the computer
- To know the school e-safety rules.
- To be able to use 2simple to write a text
- To design a card using 2paint
- To select a printer to use
- To save in the correct location and retrieve the document
- To identify all the letters and numbers on the key board
- To be able to use the space bar and caps lock
- To copy and paste using right click on the mouse
- To create a Word document
- To create and animate a simple PowerPoint presentation
- To use a camera to take pictures, including flash and zoom
- To upload the pictures onto the computer.
- To be able to use text, tables, images and sound to

### Spring Term

- We are learning to use the text align function in word.
- We are learning to use the keyboard to include punctuation in our writing.
- We are learning to take pictures using an android tablets
- We are learning to take videos using an android table.
- Know how to log on and open an app on a tablet.
- To download an app under supervision from an adult.
- I can write and send an email to another class in school.
- I can use the internet to research a given topic.
- We are learning to use the keyboard to select games we would like to use.
- We are learning to use the internet purposefully and safely to answer specific questions.

### Summer Term

- To be able to write extended pieces of writing on the computer.
- To design and play a game on the computer using purple mash
- We are learning how to create our own game using 2do it yourself.
- We are learning how to represent different artists work in different ways.
- To find out about the past from a range of sources of information.
- To find out about the past from a range of sources of information.
- To be able to navigate my way around a computer program.
- We are learning to create a power point presentation which includes an animation on our favourite sport.
- We are learning how to code a simple program to get an airplane to take off and land.

	<p>develop their ideas</p> <ul style="list-style-type: none"> <li>• To be to upload a clip art image into 2animate, word and powerpoint.</li> <li>• To use the different paint tools in 2animate.</li> <li>• To create a back ground for a film using 2animate.</li> </ul> <p><u>E-safety</u> Children use the internet purposefully and safely to answer specific questions.</p> <p>Children know that not everything they encounter on the internet is true.</p> <p>Children develop understanding of the importance of being kind and polite online.</p> <p>Use technology safely and respectfully, keeping personal information private and identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies.</p>	<ul style="list-style-type: none"> <li>• We are learning that not everything we encounter on the internet is true.</li> <li>• We are learning to send e-mails using a safe and secure system.</li> <li>• We are learning about different forms of online communication (forums / email / social networking etc).</li> </ul> <p><u>E-safety</u> Children know the difference between communicating via email and online in a discussion forum.</p> <p>Children demonstrate kindness and politeness when online.</p> <p>Children are aware of the different forms of online communication (email, forums, instant messaging and social networking sites) and find out about their associated risks.</p> <p>Use technology safely and respectfully, keeping personal</p>	<p><u>E-safety</u> Children develop awareness what is meant by personal information and understand that it is unique to them.</p> <p>Identify characteristics of people who are worthy of their trust.</p> <p>For learners to be aware of, and able to use, the rules for keeping safe on the internet.</p> <p>For learners to understand the uses of ICT inside and outside of school and to use it responsibly.</p> <p>Use technology safely and respectfully, keeping personal information private and identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies.</p> <p>Recognise common uses of information technology beyond school.</p>
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	<p>Understand what algorithms are, how they are implemented as programs on digital devices, and that programs execute by following precise and unambiguous instructions.</p> <p>Use logical reasoning to predict the behaviour of simple programs.</p>	<p>information private and identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies.</p> <p>Use technology to create, organise, store, manipulate and retrieve digital content.</p> <p>Create and debug simple programs (espresso coding).</p>	
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