



Computing



Long Term Whole School Overview

Computing Overview			
	Autumn	Spring	Summer
Nursery 2-3 Topic	My Day Autumn 1 What's in the garden? Autumn 2	Our Pets Spring 1 Farm Animals Spring 2	Making Music Summer 1 Musical Stories Summer 2
Term and Focus	Exploring cause and effect toys	To operate on/off toys or a torch	To operate a toy camera (taking photos)
Prior Learning	New Learning	Nursery 2-3 Autumn To have exposure to cause-and-effect toys	Nursery 2-3 Spring To be able to use an on and off switch for an effect.
Future Learning	Nursery 2-3 Spring To explore "what happens when I?"	Nursery 2-3 Summer To continue to investigate cause and effect toys	Nursery 3-4 Autumn To further investigate how to successfully use cause and effect toys.
Nursery 3-4 Topic	Marvellous Me Autumn 1 What's on Wood Street? Autumn 2	People Who Help Us Spring 1 Our Garden Spring 2	Little Explorers Summer 1 Let's Pretend Summer 2
Term and Focus	Exploring how things work	Programmable toys	Programmable toys
Prior Learning	Nursery 2-3 Summer Children will have an understanding that switches can take turn lights on and off and can make cameras take photos.	Nursery 3-4 Autumn To have had experience in exploring how to make toys move using push/pull and cause of effect toys.	Nursery 3-4 Spring Consolidating programmable toys.
Future Learning	Nursery 3-4 Spring Children will be expanding their understanding of making toys move.	Nursery 3-4 Summer Children will be consolidating this in Summer.	Year R Autumn Children will be exploring programming toys through following explicit directional language.
Year R Topic	We are Superheroes Autumn 1 Celebrations Autumn 2	Wonderful Walthamstow Spring 1 Little Investigators! Spring 2	Traditional Tales Summer 1 Modern Tales Summer 2
Term and Focus	Programmable toys - direction explicit language	Enable children interact with computer systems using different inputs – e.g., by using a mouse, voice, speech or touch	Use simple software applications to make something happen
Prior Learning	Nursery 3-4 Spring/Summer Children have had some experience in programming toys.	Nursery 3-4 Autumn Children will have had the opportunity to explore toys that have input and outputs.	Year R Autumn Children will have had experience programming toys and cause and effect toys.
Future Learning	Year R Summer The children will be developing programming skills further later in the year	Year 1 Spring Children will be introduced to word processing software and digital art.	Year 1 Summer Children will further develop their understanding of programming and begin to look at algorithms.
Year 1 Topic			

Term and Focus	Autumn 1 or 2 I Safe – Free e-safety lessons	Spring 1 I Write –Introduction to word processing I Draw – Digital Art Spring 2 I Model – Introduction to Modelling I Data – Introduction to Data Representation	Summer 1 & 2 I Algorithm – Introducing Instructions and Commands I Program Unit 1 – Algorithms and Programming I Program Unit 2 – Scratch Jr
Prior Learning	New Learning	New Learning	New Learning
Future Learning	Year 2,3,4,5,6 – E-safety lessons	Year 5 – I Draw – Graphical Drawing I Write – End of unit Year 5, 6 – I Model Year 3, 4, 6 – I Data	Year 2 – I Program Unit 2 Year 3 – I Program Unit 1 Year 4 – I Program Unit 1,3,4 Year 5 – I Program Unit 1 and 2 Year 6 – I Program Unit 1 and 2
Year 2 Topic			
Term and Focus	Autumn 1 and 2 I Safe – E-safety lessons	Spring 1 I Search – Searching the Web I Do Mail – Introduction to Email Spring 2 I Program – Programming with Scratch	Summer 1 I Animate – Introduction to stop frame animation Summer 2 I Program Unit 2 – Scratch Jr
Prior Learning	New Learning	New Learning	New Learning
Future Learning	Year 3,4,5& 6 – E-safety lessons	Year 3 & 6 – I Network Year 5 – I Web Year 4 – I Mail Year 3 – I Program Unit 1 Year 4 – I Program Unit 1,3,4 Year 5 – I Program Unit 1 and 2 Year 6 – I Program Unit 1 and 2	Year 3 – I Simulate Year 4 – I Animate Year 3 – I Program Unit 1 Year 4 – I Program Unit 1,3,4 Year 5 – I Program Unit 1 and 2 Year 6 – I Program Unit 1 and 2
Year 3 Topic			
Term and Focus	Autumn 1 or 2 I Safe – E-safety lessons	Spring 1 I Connect – Internet and The world wide web Spring 2 I Network – Computing Network I Data – Introduction to databases	Summer 1 I Program Unit 1 – Algorithms and Programming Summer 2 I Simulate – Computing Simulations
Prior Learning	New Learning	New Learning	New Learning
Future Learning	Year 4,5& 6 – E-safety lessons	Year 5 – I Web Year 4, 6 – I Data Year 6 – I Network	Year 4 – I Program Unit 1,3,4 Year 5 – I Program Unit 1 and 2 Year 6 – I Program Unit 1 and 2
Year 4 Topic			
Term and Focus	Autumn 1 or 2 I Safe – E-safety lessons	Spring 1 I Mail – Email Spring 2	Summer 1 I Program Unit 3 – Algorithms and Programming I Program Unit 4 – Algorithms and Programming

		I Program Unit 1 – Algorithms and Programming	Summer 2 I Data – Introduction to databases I Animate - Animation
<u>Prior Learning</u>	New Learning	New Learning	New Learning
<u>Future Learning</u>	Year 5,6 – E-safety lessons	I Mail - End of Unit Year 5 – I Program Unit 1 and 2 Year 6 – I Program Unit 1 and 2	I Animate – End of Unit Year 5 – I Program Unit 1 and 2 Year 6 – I Program Unit 1 and 2 Year 6 – I Data
<u>Year 5 Topic</u>			
<u>Term and Focus</u>	Autumn 1 or 2 I Safe – E-safety lessons	Spring 1 I Draw – Graphical Drawing Spring 2 I Program Unit 1 – Algorithms and Programming	Summer 1 I Model – 3D Graphical Drawing I Web – The world wide web Summer 2 I Crypto – An introduction to cryptography I Program Unit 2 – Microsoft Kodu
<u>Prior Learning</u>	New Learning	New Learning	New Learning
<u>Future Learning</u>	Year 6 – E-safety lessons	Year 6 Units I App I Data I Model I Network I Program I Safe	Year 6 Units I App I Data I Model I Network I Program I Safe
<u>Year 6 Topic</u>			
<u>Term and Focus</u>	Autumn 1 or 2 I Safe – E-safety lessons	Spring 1 I Draw – Graphical Drawing Spring 2 I Program Unit 1 – Algorithms and Programming	Summer 1 I Model – 3D Graphical Drawing I Web – The world wide web Summer 2 I Crypto – An introduction to cryptography I Program Unit 2 – Microsoft Kodu
<u>Prior Learning</u>	New Learning	New Learning	New Learning
<u>Future Learning</u>	Key stage 3	Key stage 3	Key stage 3

