



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					

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Prior Learning New Learning New Learning Future Learning Year 4,5& 6 - E-safety lessons Year 5 - I Web Year 4 - I Program Unit 1,3,4 Year 4 Topic Year 4 - I Program Unit 1 and 2 Year 6 - I Network Year 6 - I Program Unit 1 and 2 Year 4 Topic Autumn 1 or 2 Spring 1 Summer 1				i simulate – computing simulations
Future Learning Year 4,5& 6 - E-safety lessons Year 5 - I Web Year 4 - I Program Unit 1,3,4 Year 4, 6 - I Data Year 5 - I Program Unit 1 and 2 Year 4 Topic Year 6 - I Network Year 6 - I Program Unit 1 and 2 Autumn 1 or 2 Spring 1 Summer 1	Drior Loorning	NowLearning		Now Learning
Year 4, 6 – I Data Year 5 – I Program Unit 1 and 2 Year 4 Topic Year 6 – I Network Year 6 – I Program Unit 1 and 2 Autumn 1 or 2 Spring 1 Summer 1		5		
Year 6 – I Network Year 6 – I Program Unit 1 and 2 Year 4 Topic Autumn 1 or 2 Spring 1 Summer 1	ruture Learning			
Year 4 Topic				
Autumn 1 or 2 Spring 1 Summer 1	Year 4 Topic			
		Autumn 1 or 2	Spring 1	Summer 1
	Term and Focus	I Safe – E-safety lessons	I Mail – Email	I Program Unit 3 – Algorithms and Programming
Spring 2 I Program Unit 4 – Algorithms and Programming				o o o

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