LTP for KS3 computing Y7/Y8 (Cycle A) Y9	hing
Understanding Knowledge & skills	hing
skills development 2 What parts make up a digital device? 3 How do digital devices help us? 4 How am I connected? 5 How are computers connected? • Computer systems and us • Searching the web • Selecting search results • How search results are ranked	
development Searching the web How am I connected? The development of the web Selecting search results How search results are ranked	
 3 How do digital devices help us? 4 How am I connected? 5 How are computers connected? How search results are ranked 	
Thow are compared commercial.	
Thow are compared commercial.	
6 What does our school network look like? How are searches influenced?	
Key area of Creating media - Stop-frame animation Creating media - Video production	
understanding Knowledge 8	
Knowledge & • Can a picture move? • What is video?	
development • Frame by frame • Filming techniques	
What's the story? Using a storyboard	
Picture perfect Planning a video	
• Evaluate and make it great! • Importing and editing video	
Lights, camera, action! • Lights, camera, action!	
Key area of understanding Programming A - Sequencing sounds Programming A - Selection in physical computing	
Knowledge & • 1 Introduction to Scratch • 1 Connecting Crumbles	
skills • 2 Programming sprites • 2 Combining output components	
development • 3 Sequences • 3 Controlling with conditions	
4 Ordering commands 4 Starting with selection	
5 Looking good 5 Drawing designs	
• 6 Making an instrument • 6 Writing and testing algorithms	
Key area of Data and information – Branching databases Data and information – Flat-file databases understanding	
Knowledge & • 1 Yes or no questions • Creating a paper-based database	
8 skills 2 Maling manua	
development • 2 Making groups • 3 Creating a branching database • Using a database	
4 Structuring a branching database Using search tools	
5 Planning a branching database Comparing data visually	
6 Making a dinosaur identifier Databases in real life	

Summer 1	Key area of understanding Knowledge & skills development	Creating media – Desktop publishing Words and pictures Can you edit it? Great template! Can you add content? Lay it out Why desktop publishing?	Creating media – Introduction to vector graphics 1 The drawing tools Creating images Making effective drawings Layers and objects Manipulating objects Create a vector drawing
	Key area of understanding	Programming B - Events and actions in programs	Programming B – Selection in quizzes
Summer 2	Knowledge & skills development	 1 Moving a sprite 2 Maze movement 3 Drawing lines 4 Adding features 5 Debugging movement 6 Making a project 	 Exploring conditions Selecting outcomes Asking questions Designing a quiz Testing a quiz Evaluating a quiz

C(F)		LTP for KS4 computing	
	N Frugh 's	Y10	Y11
	Key area of understanding	Computing systems and networks - Communication and collaboration	Clear messaging in digital media
Autumn 1	Knowledge & skills development	 Internet addresses Data packets Working together Shared working How we communicate Communicating responsibly 	 Get the message across Poster making Brand Creating a brand Adding content Presenting

	Key area of understanding	Creating media – Web page creation	Networks from semaphores to the Internet
	Knowledge &	What makes a good website?	Computer networks and protocols
	skills	How would you lay out your web page?	Networking hardware
	development	Copyright or copyWRONG?	Wired and wireless networks
		How does it look?	The internet
7		Follow the breadcrumbs	Internet services
E E		Think before you link!	The World Wide Web
Autumn			
	Key area of understanding	Programming A – Variables in games	Programming essentials in Scratch – part I
	Knowledge &	Introducing variables	Introduction to programming and sequencing
	skills	Variables in programming	Sequence and variables
	development	Improving a game	• Selection
		Designing a game	Operators
		Design to code	Count-controlled iteration
ng 1		Improving and sharing	Problem-solving
Spring			
	Key area of understanding	Data and information - Introduction to Spreadsheets	Modelling data using spreadsheets
	Knowledge &	Collecting data	Getting to know a spreadsheet
7	skills development	Formatting a spreadsheet	Quick calculations
Spring 2		What's the formula?	Collecting data
Spi		Calculate and duplicate	Become a data master!
		Event planning	Level up your data skills!
		Presenting data	Assessment
	Key area of understanding	Creating media – 3D Modelling	Programming essentials in Scratch – part II
	Knowledge &	Introduction to 3D modelling	You've got the moves!
	skills	Modifying 3D objects	Fly cat fly!
	development	Make your own name badge	Loop the loop!
		Making a desk tidy	Treasure those lists!
		Planning a 3D model	Translate this! (Part 1)
		Make your own 3D model	Translate this! (Part 2)
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Summer			
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	Key area of understanding	Programming B - Sensing movement	Using media – Gaining support for a cause
	Knowledge &	The micro:bit	Features of a word processor
	skills development	Go with the flow	Licensing appropriate images
Summer 2		Sensing inputs	The credibility of sources
		Finding your way	Research and plan your blog
		Designing a step counter	Promoting your cause
		Making a step counter	Project completion and assessment