

APS CURRICULUM – Computing				YEARLY OVERVIEW
	Knowledge, Skills and understanding breakdown			
Year 1				
National Curriculum Links	Algorithms and Programs (Computer Science)	Data Retrieving and Organising (Information Technology)	Communicating (Digital Literacy).	
	Can they create a simple series of instructions e.g. left and right? Can they record their routes? Do they understand forwards, backwards, up and down? Can they put two instructions together to control a programmable toy? Can they begin to plan and test a Bee-bot journey?	Can they capture images with a camera? Can they print out a photograph from a camera with help? Can they record a sound and play it back? Can they enter information into a template to make a graph? Can they talk about the results shown on a graph? Can they draw and write using digital tools? Recognise common uses of information technology beyond school.	Do they recognise what an email address looks like? Have they joined in sending a class email? Can they use the @ key and type an email address? Can they word process ideas using a keyboard? Can they use the spacebar, back space, enter, shift and arrow keys? Can they print out a page from the internet?	
Resources				
	Bee bots (Summer 1) Discovery education coding (Summer 1) Lego builders (Spring 2)	Paint (Autumn 2) Word (Spring 1) Ipads (Summer 1 – Coding) Uses of IT (Autumn 1) Purple Mash – Graphs (Summer 2)	Word (Spring 1) Autumn 1	
Year 1 – more challenging.				
- Can they record pupils’ voices as a voice over? - Can they use a teacher prepared photo story to create a slideshow of photos?				
Year 2				
National Curriculum Links	Algorithms and Programs (Computer Science)	Data Retrieving and Organising (Information Technology)	Communicating (Digital Literacy).	
	Can they predict the outcomes of a set of instructions? Can they use right angle turns? Can they use the repeat commands?	Can they find information on a website? Can they click links in a website? Can they print a web page to use as a resource? Can they experiment with text, pictures and animation to make a simple slide show? Can they use the shape tools to draw?	Can they send and reply to messages sent by a safe email partner (within school)? Can they word process a piece of text? Can they insert/delete a word using the mouse and arrow keys?	

	Can they test and amend a set of instructions? Can they write a simple program and test it? Can they predict what the outcome of a simple program will be?		Can they highlight text to change its format (B, U, I)?
Resources			
	Discovery education – coding (ICT suite) Scratch (iPads) Unplugged	Spring 1 – Creating media catch up. Music lab- Summer 1	Autumn 1 – Logging on, word processing etc. XC
Year 2 – more challenging.			
• Can they create a presentation in a small group and record the narration? • Can they record sounds into software and playback? • Can they insert prerecorded sounds into a presentation? • Can they capture still and moving images?			
E-safety			
Knowledge & understanding • Understand the different methods of communication (e.g. email, online forums etc). • Know you should only open email from a known source. • Know the difference between email and communication systems such as blogs and wikis. • Know that websites sometimes include pop-ups that take them away from the main site. • Know that bookmarking is a way to find safe sites again quickly. • Begin to evaluate websites and know that everything on the internet is not true. • Know that it is not always possible to copy some text and pictures from the internet. • Know that personal information should not be shared online.		Skills • Follow the school's safer internet rules. • Use the search engines agreed by the school. • Act if they find something inappropriate online or something they are unsure of (including identifying people who can help; minimising screen; online reporting using school system etc). • Use the internet for learning and communicating with others, making choices when navigating through sites. • Send and receive email as a class. • Recognise advertising on websites and learn to ignore it. • Use a password to access the secure network.	

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| <ul style="list-style-type: none">• Know they must tell a trusted adult immediately if anyone tries to meet them via the internet. | |
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