

Computing Year A		
Y1/2		
Autumn	Spring	Summer
<p>2.1 Programming Have a clear understanding of algorithms as sequences of instructions.</p> <ul style="list-style-type: none"> • Convert simple algorithms to programs. • Predict what a simple program will do. • Spot and fix (debug) errors in their programs. <p>2.2 Game Testers Describe carefully what happens in computer games.</p> <ul style="list-style-type: none"> • Use logical reasoning to make predictions of what a program will do. • Test these predictions. • Think critically about computer games and their use. • Be aware of how to use games safely and in balance with other activities. 	<p>1.4 Collectors Find and use pictures on the web.</p> <ul style="list-style-type: none"> • Know what to do if they encounter pictures that cause concern. • Group images on the basis of a binary (yes/no) question. • Organise images into more than two groups according to clear rules. • Sort (order) images according to some criteria. • Ask and answer binary (yes/no) questions about their images. <p>2.4 Researchers Develop collaboration skills through working as part of a group.</p> <ul style="list-style-type: none"> • Develop research skills through searching for information on the internet. • Improve note-taking skills through the use of mind mapping. • Develop presentation skills through creating and delivering a short multimedia presentation. 	<p>2.5 Detectives Understand that email can be used to communicate.</p> <ul style="list-style-type: none"> • Develop skills in opening, composing and sending emails. • Gain skills in opening and listening to audio files on the computer. • Use appropriate language in emails. • Develop skills in editing and formatting text in emails. • Be aware of e-safety issues when using email. <p>2.6 Zoologists Sort and classify a group of items by answering questions.</p> <ul style="list-style-type: none"> • Collect data using tick charts or tally charts. • Use simple charting software to produce pictograms and other basic charts. • Take, edit and enhance photographs. • Record information on a digital map.

Y3/4		
Autumn	Spring	Summer
<p>3.1 Programmers Create an algorithm for an animated scene in the form of a storyboard.</p> <ul style="list-style-type: none"> • Write a program in Scratch to create the animation. • Correct mistakes in their animation programs. <p>3.2 Bug Fixers Develop a number of strategies for finding errors in programs.</p> <ul style="list-style-type: none"> • Build up resilience and strategies for problem solving. • Increase their knowledge and understanding of Scratch. • Recognise a number of common types of bug in software. 	<p>3.3 Presenters Gain skills in shooting live video, such as framing shots, holding the camera steady, and reviewing.</p> <ul style="list-style-type: none"> • Edit video, including adding narration and editing clips by setting in/out points. • Understand the qualities of effective video, such as the importance of narrative, consistency, perspective and scene length. <p>3.4 Network engineers Understand the physical hardware connections necessary for computer networks to work.</p> <ul style="list-style-type: none"> • Understand some features of internet protocols. • Understand some diagnostic tools for investigating network connections. • Develop a basic understanding of how domain names are converted to IP addresses. 	<p>3.5 Communicators Develop a basic understanding of how email works.</p> <ul style="list-style-type: none"> • Gain skills in using email. • Be aware of broader issues surrounding email, including 'netiquette' and e-safety. • Work collaboratively with a remote partner. • Experience video conferencing. <p>3.6 Opinion poll Understand some elements of survey design.</p> <ul style="list-style-type: none"> • Understand some ethical and legal aspects of online data collection. • Use the web to facilitate data collection. • Gain skills in using charts to analyse data. • Gain skills in interpreting results.
Y5/6		
Autumn	Spring	Summer
<p>5.3 Artists Develop an appreciation of the links between</p>	<p>5.6 Architects Understand the work of architects, designers and</p>	<p>6.6. Marketeers Consider key marketing messages, including</p>

<p>geometry and art.</p> <ul style="list-style-type: none"> • Become familiar with the tools and techniques of a vector graphics package. • Develop an understanding of turtle graphics. • Experiment with the tools available, refining and developing their work as they apply their own criteria to evaluate it and receive feedback from their peers. • Develop some awareness of computer generated art, in particular fractal-based Landscapes. <p>5.5 Bloggers</p> <p>Become familiar with blogs as a medium and a genre of writing.</p> <ul style="list-style-type: none"> • Create a sequence of blog posts on a theme. • Incorporate additional media. • Comment on the posts of others. • Develop a critical, reflective view of a range of media, including text. 	<p>engineers working in 3D.</p> <ul style="list-style-type: none"> • Develop familiarity with a simple CAD (computer aided design) tool. • Develop spatial awareness by exploring and experimenting with a 3D virtual environment. • Develop greater aesthetic awareness 	<p>identifying a unique selling point.</p> <ul style="list-style-type: none"> • Develop a printed flyer or brochure incorporating text and images. • Further develop knowledge, skills and understanding in relation to creating a website. • Further develop skills relating to shooting and editing video. <p>See also DT control</p>
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