



Stanburn Curriculum Coverage Medium Term Plan

Computing



	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
EYFS	<u>ELG: Expressive Arts and design: Creating with materials</u> - Safely use and explore a variety of materials, tools and techniques, experimenting with colour, design, texture, form and function. <u>ELG: Personal, Social and Emotional Development: Managing Self</u> - Be confident to try new activities and show independence, resilience and perseverance in the face of challenge. - Explain the reasons for rules, know right from wrong and try to behave accordingly.					
	Internet Safety Purple Mash '2BeSafe' – <u>Health, Well-being and Lifestyle</u> - I can identify rules that help keep us safe and healthy in and beyond the home when using technology. - I can give some simple examples of these rules. Topic 1 - Mouse and Trackpad Skills <u>(Busy things)</u> - Logging onto devices - Simple mouse control - Clicking and double clicking	Topic 2 - Keyboard Skills <u>(Busy things)</u> - Finding letters - Using the spacebar - Alternating between upper and lower case letters - Deleting letters using backspace	Internet Safety Purple Mash '2BeSafe' – <u>Privacy and Security</u> - I can identify some simple examples of my personal information. - I can describe who would be trustworthy to share this information with; I can explain why they are trusted. Topic 3 – Drawing Skills <u>(Busy things)</u> Drawing skills - Selecting tools - Using the undo button - Using the mouse to drag and click	Topic 4 - Robots <u>(Busy things)</u> - Describe a route in progress - Using buttons to make a robot move - Input a program of 2 or 3 steps into a floor robot - Evaluate and improve programs	Internet Safety Purple Mash '2BeSafe' – <u>Self-image and identity</u> - I can recognise, online or offline, that anyone can say, 'no/please stop/I'll tell/I'll ask' to someone who makes them feel sad, uncomfortable, embarrassed or upset. Topic 5 – Sounds and Photography <u>(Busy things)</u> - Using built in sound effects - Taking photos - Saving or deleting photos	Topic 6 – Research <u>(Busy things)</u> - Using a child friendly search engine - Searching for information using the search bar - Copying and pasting - Creating a simple poster



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	- Scrolling		- Saving work in folders			
YR1	Internet Safety <u>Common Sense</u> <i>Education: Media Balance is Important.</i> - How do we find a happy balance between our online and offline activities? Unit 1.2 – Grouping and Sorting - Sorting away from the computer. - Sorting on the computer.	Unit 1.3 – Pictograms - Data in pictures. - Class pictogram. - Recording results. Unit 1.4 – Lego Builders - Following instructions. - Following and creating simple instructions on the computer. - Following a recipe.	Internet Safety <u>Common Sense</u> <i>Education: Pause for people.</i> - How do you say goodbye to technology when you don't want to? Unit 1.7- Coding - Instruction. - Objects and Actions. - Events. - When Code Executes. - Setting the Scene.	Unit 1.7- Coding continued - Using a plan. Unit 1.5- Maze Explorers - Challenges 1 and 2. - Challenges 3 and 4. - Challenges 5 and 6. - Setting more Challenges.	Internet Safety <u>Common Sense</u> <i>Education: Safety in My Online Neighbourhood.</i> - How do you go places safely online? Unit 1.9- Tech Outside School - What is Technology? - Technology outside School.	Unit 1.6- Animated Stories - Drawing and Creating. - Animation. - Sounds and More. - Making a Story. - Copy and Paste.
YR2	Internet Safety <u>Common Sense</u> <i>Education: Pause and Think Online.</i> How can we be safe, responsible and respectful online?	Unit 2.4 – Questioning - Using and Creating Pictograms. - Asking Yes/ No Questions. - Binary Trees. - Using 2Question –	Internet Safety <u>Common Sense</u> <i>Education: How Technology Makes You Feel.</i> Why is it important to listen to your feelings when using	Unit 2.7- Making Music - Introducing 2Sequence. - Making Music. - Soundtracks. Unit 2.5 – Effective	Internet Safety <u>Common Sense</u> <i>Education: Internet Traffic Light.</i> How do you stay safe when visiting a website or app?	Unit 2.3 – Spreadsheets - Introduction to Spreadsheets. - Adding Images to a Spreadsheet. - Exploring images and values.



Stanburn Curriculum Coverage Medium Term Plan

Computing



	Unit 2.1 – Coding 1. Algorithms. 2. Collision Detection. 3. Using a Timer. 4. Different Object Types. 5. Buttons. 6. 'Smelly Code' debugging.	a Computer Based Binary Tree Program. 5. Using 2Investigate: a Non- Binary Database.	technology? Unit 2.6 – Creating Pictures 1. Introduction and Impressionism. 2. Pointillist Art. 3. Piet Mondrian. 4. William Morris and Pattern. 5. Surrealism and eCollage.	Searching 1. Understanding the Internet and Searching. 2. Searching the Internet.	Unit 2.5 – Effective Searching continued 3. Sharing Knowledge of the Internet and Effective Searching. Unit 2.8 Presenting Ideas 1. Presenting a Story Three Ways. 2. Presenting Ideas as a Quiz. 3. Making a Non-Fiction Fact File. 4. Making a Presentation.	4. Totalling tools. 5. Using a Spreadsheet to add amounts. 6. Creating a table and block graph.
YR3	Internet Safety Common Sense <u>Education:</u> <i>We, the Digital Citizens.</i> 1. How can we be good digital citizens? Unit 3.1 – Coding 1. Using Flowcharts. 2. Using Timers 3. Using Repeat. 4. Code, Test and Debug. 5. Design and make an	Internet Safety Common Sense <u>Education:</u> <i>Device-Free Moments.</i> 1. Why is it important to have device-free moments in our lives? Unit 3.4 – Touch Typing 1. Home, Top and Bottom Row Keys. 2. Home, Top and Bottom Row Keys	Internet Safety Common Sense <u>Education:</u> <i>That's Private!</i> 1. What kinds of information should I keep to myself when I use the internet? Unit 3.5 – Email 1. Communication. 2. Composing Emails. 3. Using Email Safely: Part 1.	Internet Safety Common Sense <u>Education:</u> <i>Digital Trails.</i> 1. What information is OK to have in your digital footprint? Unit 3.6 – Branching databases 1. Introducing Databases. 2. Branching Databases. 3. Creating a branching database	Internet Safety Common Sense <u>Education:</u> <i>Who Is in Your Online Community?</i> 1. How are we all part of an online community? Unit 3.7 – Simulations 1. What are Simulations? 2. Exploring a Simulation. 3. Analysing and Evaluating a	Internet Safety Common Sense <u>Education:</u> <i>Putting a Stop to Online Meanness.</i> 1. What should you do if someone is mean to you online? Unit 3.9 – Presenting 1. Making a Presentation from a Blank Page. 2. Adding Media. 3. Adding Animation.



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Computing



	interactive scene (1) 6. Design and make an interactive scene (2)	(Consolidation). 3. Left Keys. 4. Right Keys.	4. Using Email Safely: Part 2. 5. Attachments. 6. Email Simulations.	on the computer.	Simulation.	4. Presenting with Timings. 5. Create a Presentation.
YR4	Internet Safety <u>Common Sense</u> <u>Education:</u> <i>Your Rings of Responsibility.</i> 1. How do digital citizens take responsibility for themselves, their communities and their world? Unit 4.1 – Coding 1. Design, Code, Test and Debug. 2. IF Statements. 3. Co-ordinates. 4. Repeat Until and IF/ELSE statements. 5. Number variables 6. Making a playable game.	Internet Safety <u>Common Sense</u> <u>Education:</u> <i>Password Power Up.</i> 1. How can a strong password help protect your privacy? Unit 4.4 – Writing for Different Audiences 1. Font styles. 2. Using a simulated scenario to produce a news report. 3. Using a simulated scenario (cont.) 4. Writing for a campaign. 5. Writing for a campaign (cont.)	Internet Safety <u>Common Sense</u> <u>Education:</u> <i>This is me.</i> 1. How does what I post online affect my identity? Unit 4.5 – Logo 1. Introduction to 2Logo. 2. Creating letters using 2Logo. 3. Using the ‘repeat’ command in 2Logo. 4. Using procedures.	Internet Safety <u>Common Sense</u> <u>Education:</u> <i>Our digital citizenship pledge</i> 1. What makes a strong online community? Unit 4.6 – Animation 1. Animating an object. 2. 2Animate tools. 3. Stop motion animation.	Internet Safety <u>Common Sense</u> <u>Education:</u> <i>The Power of words</i> 1. What should you do when someone uses mean or hurtful language on the internet? Unit 4.7 – Effective Searching 1. Using a search engine. 2. Use search effectively to answer questions. 3. Reliable information sources. Unit 4.8 – Effective Searching 1. Hardware. 2. Parts of a computer.	Internet Safety <u>Common Sense</u> <u>Education:</u> <i>Is seeing believing?</i> 1. Why do people alter digital photos and videos? Unit 4.9 – Making Music 1. Understanding music. 2. Rhythm and tempo. 3. Melody and pitch. 4. Creating music.



Stanburn Curriculum Coverage Medium Term Plan

Computing



YR5	Internet Safety <u>Common Sense</u> <u>Education:</u> My Media Choices. 1. What makes a healthy media choice? Unit 5.1 – Coding 1. Coding Efficiently. 2. Simulating a Physical System. 3. Decomposition and Abstraction. 4. Friction and Functions. 5. Introducing Strings.	Internet Safety <u>Common Sense</u> <u>Education:</u> Private and Personal Information 1. What information about you is OK to share online? Unit 5.3 – Spreadsheets 1. Conversions of measurements 2. Using formulae. 3. Exploring probability. 4. Computational modelling. 5. Computational modelling (cont.) 6. Testing a hypothesis.	Internet Safety <u>Common Sense</u> <u>Education:</u> Our Online Tracks. 1. How does our online activity affect the digital footprints of ourselves and others? Unit 5.6 – 3D Modelling 1. Introducing 2Design and make. 2. Moving points. 3. Designing for a purpose. 4. Printing and making.	Internet Safety <u>Common Sense</u> <u>Education:</u> Keeping Games Fun and Friendly. 1. How can I be positive and have fun while playing online games, and help others do the same? Unit 5.5 – Game Maker 1. Setting the scene. 2. Creating the game environment. 3. The game quest. 4. Finishing and sharing. 5. Evaluation.	Internet Safety <u>Common Sense</u> <u>Education:</u> Be a Super Digital Citizen. 1. How can we be up-standers when we see cyberbullying? Unit 5.7 – Concept Maps 1. Introduction to concept mapping. 2. Using 2Connect 3. 2Connect story mode. 4. Collaborative concept maps.	Internet Safety <u>Common Sense</u> <u>Education:</u> A Creator's Rights and Responsibilities. 1. What rights and responsibilities do you have as a creator? Unit 5.8 – Word processing (with MS Word) 1. Making a document from a blank page. 2. Inserting images: considering copyright. 3. Editing images in word. 4. Adding the text. 5. Finishing touches. 6. Presenting information using tables.
YR6	Internet Safety <u>Common Sense</u> <u>Education:</u> Finding my	Internet Safety <u>Common Sense</u> <u>Education:</u> You Won't	Internet Safety <u>Common Sense</u> <u>Education:</u> Beyond	Internet Safety <u>Common Sense</u> <u>Education:</u> Digital	Internet Safety <u>Common Sense</u> <u>Education:</u> Is It Cyber	Internet Safety <u>Common Sense</u> <u>Education:</u> Reading



Stanburn Curriculum Coverage Medium Term Plan

Computing



<i>Media Balance.</i> 1. What does media balance mean for me? Unit 6.1 – Coding 1. Designing and making a more Complex Program (1) 2. Designing and making a more Complex Program (2) 3. Using Functions. 4. Flowcharts and Control Simulations. 5. User Input. 6. Using Text-based Adventures.	<i>Believe This!</i> 1. How do I avoid clickbait? Unit 6.9 – Spreadsheets (MS Excel) 1. What is a spreadsheet? 2. Using basic calculations. 3. Spreadsheets and modelling. 4. Organising data. 5. Advanced formulae and big data. 6. Charts and graphics.	<i>Gender Stereotypes.</i> 1. <i>How do gender stereotypes shape our online experience?</i> Unit 6.4 – Blogging 1. What is a blog? 2. Planning a blog. 3. Writing a blog. 4. Sharing posts and commenting.	<i>Friendships.</i> 1. How do you keep your online friendships safe? Unit 6.5 – Text Adventures 1. Planning a story adventure. 2. Making a story-based adventure game. 3. Coding comprehension of text adventure games. 4. Debugging and improving.	<i>Bullying?</i> 1. What is cyber bullying and how do you stop it? Unit 6.6 – Networks 1. The World Wide Web and the internet. 2. Our school network and accessing the internet. 3. Research Unit 6.7 – Quizzing 1. Introducing 2DIY.	<i>News Online.</i> 1. What are the important parts of an online news article? Unit 6.7 – Quizzing (cont) 1. Using 2Quiz. 2. Exploring grammar quizzes. 3. A database quiz. 4. Using a survey.
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