

Year	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
EY1	<p>Introduction to computers & Introduction to e-safety Physical health and Wellbeing: Internet Safety and harm. Reporting concerns. Relationships Education: Online Relationships - ICT Sid's Top Tips. The rules and principles for keeping safe online, how to recognise risks, harmful content and contact, and how to report them (link to C&E) 15.1, 15.2</p>	<p>Using the Internet: Learning about Diwali – festival of lights Firework pictures – using Doodle Lite on iPads Relationships Education: Online Relationships - iPad and Beebot use - the rules and principles for keeping safe online, how to recognise risks, harmful content and contact, and how to report them (link to C&E) 15.1, 15.2</p>	<p>2animate (Coding) Create an animation of a rocket taking off Use Purple mash to create animation 15.1, 15.2</p>	<p>Using Andy's Great Fossil Hunter on iPads 15.1, 15.2</p>	<p>Beebots and roamers to move around maps of the jungle, polar regions and mountains. 15.1, 15.2</p>	<p>Using iMovie on iPad Life cycle of caterpillars/ Butterflies 15.1, 15.2</p>
Year 1	<p>To stay safe online (Online Safety) Login safely. Start to introduce to the children the idea of 'ownership' of their creative work. Know how to find saved work on the server. Become familiar with the types of resources available in the Topics section IN Education city/Purple Mash. Understand the importance of logging out when they have finished. E-Safety Sid's Top Tips (C&E) 1.5,1.6 <i>Linked to Emotional Health – Staying Safe</i></p>	<p>Pictograms and Venn Diagrams, Purple Mash (Grouping & Sorting) Understand that data can be represented in picture format. Use a pictogram to record the results of an experiment Ipad and netbook use(C&E) 1.4, <i>Linked to Literacy Role Playing the Knuffle Bunny and Dogger. Poetry - The Magic Box</i></p>	<p>The Wrong Sandwich Purple Mash (Lego Builders) Emphasise the importance of following instructions. follow and create simple instructions on the computer. Consider how the order of instructions affects the result 1.1,1.2,1.3 <i>Linked to Maths – Using Purple Mash to Classify Shapes</i></p>	<p>Use Beetbots to navigate castle (Coding) Understand what coding means in computing. Add and change backgrounds and characters. Use code blocks to make the characters move automatically. Use the Stop button to make characters stop 1.1,1.2.1.3 <i>Linked to P&T – Using Beebots to Navigate a Castle</i></p>	<p>Purple Mash Animal lifecycle (Animated Story Books) Add animation to a story. Add sound to a story including voice recording and music the children have created. Adding backgrounds and copying and pasting pages 1.3,1.4</p>	<p>Explore different parts of the Computer/3D Printer) Technology outside school Walk around the local community and find examples of where technology is used. Record examples of technology outside school. 1.6 <i>Linked to P&T – 21st Century Technology 3D printer – model of a moving bike</i></p>
Year 2	<p>Using the Internet Safely to Research Rivers (Online Safety) Know how to refine searches using the Search too. Have some knowledge and understanding about sharing more globally on the Internet. Understand that information put online leaves a digital footprint or trail Physical health and Well-being: Internet Safety and harm - on-line abuse and mental health. Reporting concerns. Relationships Education: Online Relationships - ICT Sid's Top Tips. The rules and principles for keeping safe online, how to recognise risks, harmful content and contact, and how to report them (link to C&E) 1.5, 1.6</p>	<p>Using Purple Mash to navigate vehicles around a road (Coding) Understand what an algorithm is? Understand how to use the Repeat command. Know what debugging means. Create programs using different kinds of objects whose behaviours are limited to specific actions Silhouette Software (2D Printer (link to S&T) Relationships Education: Online Relationship - keeping personal information safe online (link to C&E) 1.1, 1.2, 1.3</p>	<p>Internet research on The Beatles and Roald Dahl (Effective Searching) Understand the terminology associated with searching. Gain a better understanding about searching on the Internet. Create a leaflet to help someone search for information on the Internet 1.5, 1.6</p>	<p>Using Powerpoint to present information about the Great Fire of London (Presenting ideas) Explore how a story can be presented in different ways. Make a fact file on a nonfiction topic using Publisher or Powerpoint adding pictures from clipart or Files. 1.3, 1.4</p>	<p>Printing Pictures to Create Collages (Creating Pictures) Explain what is meant by impressionist style of art (Monet, Degas, Renoir) Recreate pointillist art and look at the work of pointillist artists. 1.4</p>	<p>Use Purple Mash to classify different materials according to their properties (Questioning) Show that the information provided on pictogram is of limited use beyond answering simple questions. Use YES or No questions to separate information. Use a range of yes/no questions to separate different items. Construct a binary tree to separate different items. 1.4</p>
Year 3	<p>Use Word Document to Produce a Fact File (Touch-Typing) Introduce typing terminology. Understand the correct way to sit at the keyboard. Learn how to use the home, top and bottom row keys. Practise and improve typing for home, bottom and top rows. Practise the</p>	<p>Design Sid's Top Tip poster (Online Safety) Know what makes a safe password, how to keep passwords safe and the consequences of giving your passwords away. Understand how the Internet can be used to help us to communicate effectively. Learn about</p>	<p>Use 2code to create a program with an object that repeats actions indefinitely. (Coding) Use the design to write the code for the program. Combine a timer in a</p>	<p>Classify Rocks according to their characteristics (Branching Database) Sort objects using just YES/NO questions. Create a branching database of the children's choice. 2.6 <i>Linked to P&T – Green Screen Cliveden House</i></p>	<p>Create fact file using Word Document or Powerpoint and share it on outlook365 (E-mail) Think about the different methods of communication. Open and respond to an email. Write an email to someone, using an address book. Add an</p>	<p>Combining Text and Graphics Enter data into a graph and answer questions. Solve an investigation and present the results in graphic form. 2.6</p>

	<p>keys typed with the left hand. Practise the keys typed with the right hand Relationships Education: Online Relationships - ICT Sid's Top Tips. The rules and principles for keeping safe online, how to recognise risks, harmful content and contact, and how to report them. (link to C&E) 2.6</p>	<p>the meaning of age restrictions symbols on digital media and devices. Physical health and Wellbeing: Internet Safety and harm - on-line abuse and mental health. Reporting concerns. Relationships Education: Online Relationships - Responsible Internet Use. Same principles apply to online relationships as to face-to face relationships, including the importance of respect for others online including when we are anonymous. (link to C&E) 2.5, 2.7</p>	<p>program with selection. Use a variable to create a timer. Explore the use of the repeat command and how this differs from the timer 2.1, 2.2, 2.3</p>	<p><i>Linked to P4C - Qu 3</i></p>	<p>attachment to an email 2.4,2.7 <i>Linked to P&T - Using a 3D Printer to make a Viking Long Boat or shield</i></p>	
Year 4	<p>Use Explain Everything to write fact file (Writing for different audiences) Explore how font size and style can affect the impact of a text. Use text formatting to make a piece of writing fit for its audience and purpose E-Safety Sid's Top Tips(C&E) 2.6 <i>Use 3D printer to make Brunel Bridge</i> Linked to Literacy – Explain everything used for BW fact file – focus on formatting, font, layout, photos with captions, backgrounds, titles & sub-titles considering the targeted audience</p>	<p>Exploring and Annotating Sid's Top Tips in order to Explore and utilise E safety (Online Safety) Identify the risks and benefits of installing software including apps. understand that copying the work of others and presenting it as their own is called 'plagiarism' and to consider the consequences of plagiarism Cyberbullying(C&E) 2.4,2.7 Linked to Citizenship – Sid's Top Tips</p>	<p>Purple mash coding-Guard the Castle(Tudors) (Coding) Use sketching to design a program and reflect upon their design. Create code that conforms to their design. Introduce the If/else statement and use it in a program. Create a variable Create a program with a character that repeats actions. 2.1,2.2,2.3 Linked to P&T and Maths Week – Purple Mash Coding: Guard the Castle</p>	<p>Researching timeline of Monarchy in HAMPTON Court PALACE (Effective Searching) Locate information on the search results page. Use search effectively to find out information. Use search effectively to find out information 2.4,2.6,2.7 Planning route from school to HCP on Google Maps Research the key events and stories of HCP using Safari on ipads and Purple Mash Timelines</p>	<p>Formatting cells to create a shopping list and simple budget (Spreadsheets) Using the formula wizard in the advanced mode to add formulae and explore formatting cells. Use a series of data in a spreadsheet to create a line graph. Using a spreadsheet for budgeting. 2.6 Linked to Food Technology & Maths – creating shopping list on Excel spreadsheets to show budgeting.</p>	<p>Designing a Sports House Badge on Silhouette Printer (Hardware Investigators) Design a team badge, use fabrics, sequins, beads buttons and different stitches and use Silhouette Cameo Printer and Silhouette Studio(Sc.) 2.4 Silhouette Printer to print the Team Badges</p>
Year 5	<p>Create PowerPoint on Life Cycle and Explain Everything to design Marianne North fact file (Presentational Skills) Select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs or files. Explain Everything(ICT) PowerPoint (link to S&T) Relationships Education: Online Relationships - ICT Sid's Top Tips. The rules and principles for keeping safe online, how to recognise risks, harmful content and contact, and how to report them. (link to C&E) 2.4, 2.5, 2.6</p>	<p>Discuss and design a poster to show how to use mobile and gaming apps safely (Online Safety) Understand the advantages, disadvantages, permissions and purposes of altering an image digitally and the reasons for this. Be aware of appropriate and inappropriate text, photographs and videos and the impact of sharing these online Physical health and Wellbeing: Internet Safety and harm - on-line abuse and mental health. Reporting concerns. Relationships Education: Online Relationships - Mobile phone and app/gaming safety. How information and data is shared and used online Mobile phone and app/gaming safety (link to C&E) Sid's Top Tip poster(C&E) 2.4, 2.5</p>	<p>Create a Quiz on WW1 using the timer and if/else statements with Scratch (Coding) Create a game which has a timer and score pad. Use variables to control the objects in the game. Create loops using the timer and If/else statements. 2.1, 2.2, 2.3 Create WW1 Quiz(P&T)</p>	<p>Work out the formula of area and perimeter of rectangles (Spreadsheets) Use a spreadsheet to work out the formula of area and perimeter of rectangles. Create a formula that will work out how many days there are in x number of weeks or years 2.6 Linked to Maths-Work out formula of area and perimeter</p>	<p>Collect data and create a table and a graph to show population of different regions in India (Create Database) How to search for information on a database, create a database around a chosen topic Physical health and Wellbeing: Internet safety & harms – being a discerning consumer of information 2.5, 2.6 Linked to P&T-Create database on the population of different regions in India</p>	<p>Design and print Propellers using MakerBot (3D Modelling) Understand designing for a purpose. Understand printing and making Designing and Printing Propellers using MakerBot 3D Printer (link to S&T) 2.2, 2.6 Linked to S&T - 3D Printer Green Screen linked to Literacy – The Piano</p>
Year 6	<p>Online Safety How to use mobile phone and online platforms safety (Online Safety) Identify benefits and risks of mobile devices broadcasting the location of the user/device, e.g. apps accessing</p>	<p>Use Purple Mash to Blog about Online Relationships (Blogging) Identify the purpose of writing a blog. Identify the features of successful blog writing. Understand how to write a</p>	<p>Code a Crumble Board to move a car (Coding) design, write and debug programs that accomplish specific goals, including controlling or simulating physical</p>	<p>Using Excel to Produce a Spreadsheet for the cost of bread (Spreadsheets) Create formulae, plan pocket money spending Plan a school event</p>	<p>Programming We do Lego and using iPad App (Programming) Model reality, conduct investigations, and use design skills WeDo (link to S&T.) 2.1, 2.2, 2.3</p>	<p>Design a Web page (Networking) Find out what a LAN and a WAN are. Find out how we access the internet in school. Think about what the future might hold Physical Health & Wellbeing: Internet</p>

	<p>location. To have a clear idea of appropriate online behaviour and how this can protect themselves and others from possible online dangers, bullying and inappropriate behaviour</p> <p>Relationships Education: Online Relationships - cyberbullying. The same principles apply to online relationships as to face-to face relationships, including the importance of respect for others online including when we are anonymous.</p> <p>Physical health and Wellbeing: Internet safety and harms. On-line abuse and mental health. Reporting concerns</p> <p>Cyberbullying (link to C&E) 2.4, 2.5</p>	<p>blog. Consider the effect upon the audience of changing the visual</p> <p>Relationships Education: Online Relationships - Social media protocols. How information and data is shared and used online. How to critically consider their online friendships and sources of information including awareness of the risks associated with people they have never met.</p> <p>Social media Protocols (link to C&E) 2.4, 2.6, 2.7</p>	<p>systems</p> <p>Crumble software to program (link to S&T) 2.1, 2.2, 2.3</p>	<p>2.6</p>		<p>safety & harms – being a discerning consumer of information 2.4, 2.5, 2.7</p>
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Colour Key:

Education, Relationships & Sex Education and Health Education

Online Relationships

Links to Science & Technology