



Goat Lees Primary School Computing and Online Safety Curriculum

	Term 1	Term 2	Term 3	Term 4	Term 5	Term 6
EYFS						
Online Safety	<p>Online Safety Updated PPT</p> <p>Show slides to class and discuss - sign the Class AUP</p> <p>Class laptops, desktops and tablets Discuss how to use class laptops, desktops and tablets and what to do if we see something we don't like.</p>	<p>Net Smart Kidz Cloud Chaos Game</p> <p>Teachers and TAs discuss the words used within the game: bad content etc...</p> <p>https://www.netsmartkids.org/games/</p>	<p>Safer Internet Day</p> <p>Theme dependent on the year's topic.</p>	<p>What devices do we use at home?</p> <p>https://www.youtube.com/watch?v=d5kW4pl_VQw</p> <p>Discuss what happened in the video... what could the child have done differently?</p> <p>Make a list with the class of all of the devices we use in in school and at home. How can we stay safe when we use these?</p>	<p>Sharing information</p> <p>Discuss with the class what their favourite games are. Do they ever have to give information about themselves into these games?</p> <p>Who should they ask first?</p>	<p>Staying Safe Online at Home</p> <p>https://www.youtube.com/watch?v=w7vZF-8bTFI</p> <p>Watch the Smartie Video with the class and pause to ask what Smartie should do.</p> <p>Children to join in with the online safety song.</p>
Curriculum	<p><u>Systems and Networks</u></p> <ul style="list-style-type: none"> -Technology around us -Technology hunt -Begin logging in -navigating finding docs and websites 	<p><u>Creating Digital Content</u></p> <p>Digital Skills -Log on to computer - Microsoft word -typing and mouse practise. - ipad gestures (zoom etc)</p> <p>https://www.netsmartkids.org/games/</p>	<p><u>Systems and Networks</u></p> <ul style="list-style-type: none"> -What ways do children already use to communicate? Telephone, talk, letters -zoom 	<p><u>Programming</u></p> <ul style="list-style-type: none"> -Bee Bots/ bluebots, using tactile reader. -Remote control cars/bluebot -camera/ipad 	<p><u>Creating Digital Content</u></p> <p>Purple Mash</p> <ul style="list-style-type: none"> -Log on + explore -2 music -2 paint -2 animate -2write 	<p><u>Consolidation of year</u></p> <p>Revision questions and reminders to the class.</p>
Computing Knowledge	<p>I am beginning to know where to go for help when I have concerns about content</p> <p>Know the names of key Computing technologies</p>	<p>I know where to go for help if I have concerns about online content.</p> <p>I know what bad content means.</p>	<p>I understand how to communicate safely and respectfully using school computing technology and at home.</p>	<p>I am beginning to learn what an algorithm is.</p>	<p>I know that I should not share personal information online.</p> <p>I know that I should log out of Purple Mash when I am finished.</p>	<p>I know who I should speak to at school or at home, if I encounter content that upsets me online.</p>
Computing Skills	<p>Use technology safely and respectfully</p> <p>Start to recognise common uses of information technology</p>	<p>I am beginning to login to school computers</p> <p>I am beginning to use the school tablets.</p>	<p>I can communicate my ideas through Computing technology.</p>	<p>I can input a simple set of instructions into a computer device (BeeBot) to fulfill an objective.</p>	<p>I know how to play online games more safely.</p> <p>I can log in to Purple Mash and access specific games there.</p>	<p>I can use all of my skills to complete tasks on the school tablets, computers and various apps and websites.</p>

Year 1						
Online Safety	<p>Online Safety Updated PPT</p> <p>Show slides to class and discuss - sign the Class AUP</p>	<p>Parent Zone Is that your internet? PPT slides and activities.</p> <p>Sharing information https://www.youtube.com/watch?v=M-njh8mFvVk >Discussion about games and what information it asks us. Paying for add-ons etc...</p>	<p>Purple Mash Unit 1.1 Lesson 1 - safe logins, password, ownership</p> <p>Safer Internet Day Assembly and activities.</p>	<p>Parent Zone Is that your search engine? Safe use of search engines and how to avoid adverts / false information.</p>	<p>Purple Mash Unit 1.1 Lesson 4 - Exploring purple mash, importance of logging out.</p>	<p>Parent Zone <i>Digi-Dog introduction</i></p> <p><i>Introduce Digi Dog. What three rules would you teach Digi Dog when using the internet? - what have we learnt during the year about Online Safety?</i></p>
Curriculum	<p><u>Systems and Networks</u></p> <p>Teach Computing Year 1: Unit 1 Technology around us</p> <ul style="list-style-type: none"> - Technology in our classroom - Using technology - Developing mouse skills - Using a computer keyboard - Developing keyboard skills - Using a computer responsibly <p><u>Typing Skills BBC</u> <u>Dance Mat Typing</u></p>	<p><u>Creating Digital Content</u></p> <p>Rising Stars - We are painters</p> <ul style="list-style-type: none"> - Illustrate an eBook using 2Paint 	<p><u>Programming</u></p> <p>Rising Stars - We are treasure hunters</p> <ul style="list-style-type: none"> - Program BeeBots 	<p><u>Creating digital Content</u></p> <p>Rising Stars - We are collectors</p> <ul style="list-style-type: none"> - Finding images using the web and save onto PowerPoint 	<p><u>Data and information</u></p> <p>Teach Computing Year 1 - Unit 4 - Grouping Data</p> <ul style="list-style-type: none"> - Label & match - Group & count - Describe an object - Making different groups - Comparing groups - Answering questions 	<p><u>Programming</u></p> <p>Purple Mash - Animation</p>
Computing Knowledge	<p>I know the names of important information technologies at school and at home. I know who to speak to if I am upset or worried by online content.</p>	<p>I know what information I should keep private online. I know how computers can be used to create Art work.</p>	<p>I know that I must keep my passwords secure. I know who to speak to if I am upset or worried by online content. I know that BeeBots can be programmed to move.</p>	<p>I know that search engines help us to find information online.</p>	<p>I know that I must log out of websites and apps that I use in school and at home. I know that we can capture and compare data on a computer.</p>	<p>I know that algorithms can be used to create computer animations.</p>

Computing Skills	I can use technology safely and respectfully I am finding the keyboard keys more quickly on a Desktop Computer and on a Tablet	I am beginning to use computer technology to create digital content.	I can input clear instructions into a computing device (BeeBot) to follow a simple route.	I can safely and effectively use search engines to find information and images. With support, I can add images and information to a PowerPoint.	I can use technology to organise, store and retrieve digital content.	I can use simple algorithms to create digital content.
Year 2						
Online Safety	Online Safety Updated PPT Show slides to class and discuss - sign the Class AUP	Parent Zone Is that your Internet? PPT slides and discussion with the class about their key rules to remain safe online.	Parent Zone Is that your Password? Work through with the children and discuss the importance of keeping passwords secret and complex. Safer Internet Day Assembly and activities.	Parent Zone Digidog - Empathy Read through the comments story and suggest how they could act differently: Children write a positive ending to the story, using their Online Safety knowledge.	NetSmartKidz: Trusted Adult https://www.youtube.com/watch?v=AmRln0Cq3rE Show the children the video and then discuss what webster should do...	Purple Mash Sending emails Unit 2.2 Lesson 3 Whole class responding to email together, what information do we share?
Curriculum	<u>Systems and Networks</u> Teach computing Year 2 - Unit 1 - IT around us - What is IT - IT in school - IT in the world - The benefits of IT - Using IT safely - Using IT in different ways <u>Typing Skills</u> <u>BBC Dancemat Typing</u>	<u>Programming</u> Rising Stars - We are astronauts - Programming on screen using Scratch - Programming physical devices (BeeBots) to explore an area.	<u>Creating Digital Content</u> Rising Stars - We are photographers - Taking, selecting and editing digital images.	<u>Creating Digital Content</u> PowerPoint -Creating and inserting sound -Creating and inserting images -Creating multimedia presentation -Inserting text boxes	<u>Programming</u> Rising Stars - We are game testers -Explore how computer games work -Edit a computer game, using Scratch to make it easier to play. -Fix a bug in the algorithm to ensure that the game works properly.	<u>Data and information</u> Teach Computing Year 2 - Unit 4 - Pictograms - Counting and comparing - Enter the data - Creating pictograms - What is an attribute - Comparing people - Presenting information

Computing Knowledge	I know who to speak to if I am upset or worried by online content. I know the names of important computer technology devices. I know some of the benefits of computer technology.	I know that an algorithm is a set of instructions for a computer device to follow. I know that these instructions must be clear to be followed accurately.	I know that I must include letters and numbers in my password to make it more difficult to copy. I know who to speak to if I am upset or worried by online content. I know what makes an effective photo.	I know that we must show empathy towards each other online. I can think of solutions to an online safety issue. I know that images, fonts and colours can enhance the effectiveness of my PowerPoint.	I know who my 'trusted adults' are that I can speak to about an online safety issue. I know that Computer games are made, using programmed instructions.	I know that emails must be sensible and polite. I know that Computers can make charts and tables to show our data.
Computing Skills	I am becoming more familiar with the keys on a keyboard and I can type more quickly. I can login to computers and tablets more quickly in school.	I can input a more complex set of instructions with a BeeBot device to allow it to explore in different directions.	I can take a photo using a tablet device or a digital camera. I can edit a photo using the photo device itself. I can edit a photo using tools on a desktop computer.	I can make an effective PowerPoint about our History learning. I am editing fonts, backgrounds and animations using PowerPoint.	I can edit the algorithm on a game, to make it easier to play. I can edit a 'bug' in a game so that it works properly.	I can send an email to my class teacher and classmates. I can create a pictogram to present data. I can create, interpret and compare data in different pictograms.

Year 3

Online Safety	<p>Online Safety Updated PPT</p> <p>Show slides to class and discuss - sign the Class AUP</p>	<p>Google, Internet Legends</p> <p><i>Think before you share</i></p> <p>Activity 1</p> <p>Play Interland: Mindful Mountain</p>	<p>Google, Internet Legends</p> <p><i>Check It's for real</i></p> <p>Activity 3</p> <p>Play Interland: Reality River</p> <p>Safer Internet Day</p> <p>Assembly and activities.</p>	<p>Google, Internet Legends</p> <p><i>Protect your stuff</i></p> <p>Activity 1</p> <p>Play Interland: Tower of Treasure</p>	<p>Google, Internet Legends</p> <p><i>Respect each other</i></p> <p>Activity 1</p> <p>Play Interland: Kind Kingdom</p>	<p>Google, Internet Legends</p> <p><i>Respect each other</i></p> <p>Activity 3</p> <p>Play Interland: Kind Kingdom</p>
Curriculum	<p><u>Programming</u></p> <p>Rising Stars - We are game Designers</p> <p><u>Typing Skills</u></p> <p>BBC Dance Mat Typing Skills</p>	<p><u>Creating Digital Content</u></p> <p>Rising Stars - We are presenters</p> <p>- Videoing performance using iMovie</p>	<p><u>Systems and Networks</u></p> <p>Teach Computing Year 3 - Unit 1 - Connecting computers</p> <p>- How does a digital device work?</p> <p>- What parts make up a digital device?</p> <p>- How do digital devices help us?</p>	<p><u>Programming</u></p> <p>Rising Stars - We are programmers</p> <p>- Programming an animation in Scratch</p>	<p><u>Data and Information</u></p> <p>Teach Computing Year 3 - Unit 4 - Branching Databases</p> <p>- Yes or no questions</p> <p>- Making groups</p> <p>- Creating a branching database</p> <p>- Structuring a branching database</p> <p>- Using a branching database</p>	<p><u>Creating Digital Content</u></p> <p>Teach Computing Year 3 - Unit 5 - Desktop publishing</p> <p>- Words & pictures</p> <p>- Can you edit it?</p> <p>- Great template!</p> <p>- Can you add content?</p> <p>- Lay it out</p>

			<ul style="list-style-type: none"> - How am I connected? - How are computers connected? - What does our school network look like? 		- Two ways of presenting information	- Why desktop publishing?
Computing Knowledge	I know who I should speak to if I am scared, worried or upset by online content. I understand how simple algorithms work.	I am starting to understand respectful and responsible behaviour online. I am starting to learn what information I should and should not share online.	I am beginning to know that some information on the internet may be false or biased. I am beginning to understand computer networks, including the internet.	I understand why I must keep my passwords private. I know which information I should and should not include on my online accounts. I know that computer programs, such as Scratch, can be used to program an animation.	I know that I must be respectful. I can recognise acceptable and unacceptable content and I know how to report concerns about content. I know that computers can be used to create databases and present data.	I know that I must be respectful. I can recognise acceptable and unacceptable content and I know how to report concerns about content. I know which programs are best for creating a published document. I understand why a desktop computer is best for creating and editing this content.
Computing Skills	I am starting to design and write programs to design an exciting game. I am typing more quickly, using computers and tablets.	I can record video footage to create new content. I can use programs to edit the content of my video.	I can label parts of a network within school and a larger network across a country or even the world. I am beginning to understand the opportunities offered by connectivity through networks.	I can use sequence, selection and repetition in my coding for an animation. I can use logical reasoning to explain the algorithms in my code and look for, and fix bugs in my coding.	I can create a systematic database to present data. I can appreciate how results are selected and ranked.	I can create, edit and publish digital content.
Year 4						
Online Safety	Online Safety Updated PPT Show slides to class and discuss - sign the Class AUP	Google, Internet Legends <i>Think before you share</i> Activity 4 Play Interland: Mindful Mountain	Google, Internet Legends <i>Check It's for real</i> Activity 1 Play Interland: Reality River Safer Internet Day Assembly and activities.	Google, Internet Legends <i>Protect your stuff</i> Activity 2 Play Interland: Tower of Treasure	Google, Internet Legends <i>Respect each other</i> Activity 4 Play Interland: Kind Kingdom	Google, Internet Legends <i>Respect each other</i> Activity 5 Play Interland: Kind Kingdom

Curriculum	<p><u>Creating Digital Content</u></p> <p>Teach Computing Year 4 - Unit 2 - Audio production OR Unit 4 - Photo Editing</p> <ul style="list-style-type: none"> - Digital recording - Recording sounds - Creating a podcast - Editing digital recordings - Combining audio - Evaluating podcasts - Changing digital images - Changing the composition of images - Changing images for different uses - Retouching images - Fake images - Making & evaluating a publication <p><u>Typing Skills</u> BBC Dance Mat Typing Practice. Typing speed competition in class.</p>	<p><u>Programming</u></p> <p>Teach computing Year 4 - Unit 3 - Repetition in shapes</p> <ul style="list-style-type: none"> - Programming a screen turtle - Programming letters - Patterns and repeats - Using loops to create shapes - Breaking things down - Creating a program 	<p><u>Programming</u></p> <p>Micro:bits</p> <p>http: //microbit.org/teach/lessons/first-lessons-with-makecode-and-the-microbit/</p> <p>6 lessons discovering the Mico:bit</p>	<p><u>Data & Information</u></p> <p>Teach Computing Year 4 - Unit 4- Data logging</p> <p>Use data loggers OR Micro:bits</p> <ul style="list-style-type: none"> - Answering questions - Data collection - Logging - Analysing data - Data for answers - Answering my question 	<p><u>Creating Digital Content</u></p> <p>Rising Stars - We are web page designers</p> <p>Creating a web page about cyber safety</p>	<p><u>Systems and Networks</u></p> <p>Teach computing Year 4 - Unit 1- The Internet</p> <ul style="list-style-type: none"> - Connecting networks - What is the Internet made of? - Sharing information - What is a website? - Who owns the web? - Can I believe what I read?
Computing Knowledge	<p>I know that I must be respectful. I can recognise acceptable and unacceptable content and I know how to report concerns about content. I know that some images, videos and audio that I encounter online may be fake.</p>	<p>I can explain what information I should and should not share online. I know that algorithms can be created to make art on a computer.</p>	<p>I can explain that some information on the internet may be false or biased. I know that programming also allows us to control physical systems, not just programs on a computer.</p>	<p>I understand why I must keep my passwords private. I understand that I must keep personal information private. I know that computers can be used to program a data logger. I know that I can record data directly to a computer for analysis.</p>	<p>I know that I must be respectful. I can explain acceptable and unacceptable content and I know how to report concerns about content. I know that websites are 'written' and edited by web designers.</p>	<p>I know that some information on the internet may be false or biased. I understand how computer networks, including the internet, allow us to connect together. I know that content on websites, including what I publish on there is owned by the website owners.</p>

Computing Skills	I can create, edit, publish and evaluate digital audio / photo content.	I can create an algorithm to program a drawing app to create patterns and pictures.	I am beginning to use coding skills to program and control a physical system.	I can use coding skills to program and control a physical system and to record data.	I can use a program to make content for a webpage about online safety.	I can explain how a network is connected together.
Year 5						
Online Safety	Online Safety Updated PPT Show slides to class and discuss - sign the Class AUP	Google, Internet Legends <i>Think before you share</i> Activity 2 Play Interland: Mindful Mountain	Google, Internet Legends <i>Check It's for real</i> Activity 2 Play Interland: Reality River Safer Internet Day Assembly and activities.	Google, Internet Legends <i>Protect your stuff</i> Activity 3 Play Interland: Tower of Treasure	Google, Internet Legends <i>Respect each other</i> Activities: 3 Play Interland: Kind Kingdom	Purple Mash Unit 5.2 - Lesson 1 comic strip of online safety
Curriculum	<u>Systems and Networks</u> Purple Mash - Emails	<u>Data and Information</u> Teach Computing Year 5 - Unit 4 - Flat-file databases - Creating a paper-based database - Computer databases - Using a database - Using search tools - Comparing data visually - Databases in real life	<u>Programming</u> Coding	<u>Systems and Networks</u> Teach Computing Year 5 - Unit 1 - Systems and searching - Systems - Computer systems and us - Searching the web - Selecting search results - How search results are ranked - How are searches influenced	<u>Creating digital content</u> PowerPoint -Present my ideas using multimedia - including animation. -Video edit and drop in -Create and insert hyperlinks -Jump to slide (book marking, chapters)	<u>Creating digital content</u> Teach computing Year 6 - Unit 5 - 3D/2D Modelling - Introduction to 3D modelling - Modifying 3D objects - Make your own name badge - Making a desk tidy - Planning a 3D model - Make your own 3D model
Computing Knowledge	I know that I must be respectful. I can recognise acceptable and unacceptable content and I know how to report concerns about content. I know that emails must be professional and polite.	I can explain what information I should and should not share online. I know that I can compare data and search for data, using a database program.	I can explain to different people that some information on the internet may be false or biased. I know different methods to test whether online information is true or false.	I can explain why I must keep my passwords private. I can explain which information I and other people should and should not include on our online accounts. I understand how the world wide web provides opportunities for communication,	I know that I must be respectful. I can recognise acceptable and unacceptable content and I know how to report concerns about content. I understand the key functions of the 'ribbon tabs' in PowerPoint.	I can explain all of my key online safety learning from this year. I can recognise acceptable and unacceptable content and I know how to report concerns about content. I know that computers can be programmed to

				collaboration and searching.		control a physical system.
Computing Skills	I can send an email to my class teacher and classmates.	I can create a systematic database to present data. I can search for information in my own databases and other people's databases. I can evaluate databases created by others.	I can independently design, write and debug a program that accomplish specific goals	I can use search technologies effectively, appreciate how results are selected and ranked, and evaluate the results.	I can use my knowledge of the buttons and functions of PowerPoint to perform tasks quickly and effectively. I can create a PowerPoint to present my ideas, including inserted audio/video, hyperlinks and personalised designs.	I can design, write and debug a program to design content and then control a physical system to create my own badge.

Year 6

Online Safety	<p>Online Safety Updated PPT</p> <p>Show slides to class and discuss - sign the Class AUP</p>	<p>Google, Internet Legends <i>Think before you share</i> Activity 3</p> <p>Play Interland: Mindful Mountain</p>	<p>Google, Internet Legends <i>Check It's for real</i> Activity 2</p> <p>Play Interland: Reality River Safer Internet Day</p> <p>Assembly and activities.</p>	<p>Google, Internet Legends <i>Protect your stuff</i> Activity 4</p> <p>Play Interland: Tower of Treasure</p>	<p>Google, Internet Legends <i>Respect each other</i> Activity 5</p> <p>Play Interland: Kind Kingdom</p>	<p>Google, Internet Legends When in doubt, discuss - Activity 4</p> <p>Play Interland: All levels - record scores amongst the Year 6s</p>
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Curriculum	<p><u>Creating Digital Content</u></p> <p>Green Screen</p> <p>- DoInk</p>	<p><u>Systems and networks</u></p> <p>Teach Computing Year 6 - Unit 1 - Communication and collaboration</p> <ul style="list-style-type: none"> - Internet addresses - Data packets - Working together - Shared working - How we communicate - Communicating responsibly 	<p><u>Data and information</u></p> <p>Teach Computing Year 6 - Unit 4 - Spreadsheets</p> <ul style="list-style-type: none"> - Collecting data - Formatting a spreadsheet - What's the formula? - Calculate and duplicate - Event planning - Presenting data 	<p><u>Programming</u></p> <p>Teach computing Year 6 - Unit 3 - Variables in games</p> <ul style="list-style-type: none"> - Introducing variables - Variables in programming - Improving a game - Designing a game - Design to code - Improving and sharing 	<p><u>Programming</u></p> <p>Teach computing Year 6 - Unit 6 - Sensing movement</p> <ul style="list-style-type: none"> - The micro:bit - Go with the flow - Sensing inputs - Finding your way - Designing a step counter - Making a step counter 	<p><u>Creating Digital Content</u></p> <p>Teach computing Year 6 - Unit 2 - Web page creation</p> <ul style="list-style-type: none"> - What makes a good website - How would you lay out your webpage? - Copyright or copyWRONG? - How does it look? - Follow the breadcrumbs - Think before you link!
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Computing Knowledge	I can recognise acceptable and unacceptable content and I know how to report concerns about content. I know that computer programs can allow us to record, edit and publish video content.	I can explain what information I should and should not share online and use my knowledge to educate younger children in the school.	I can explain to younger children that some information on the internet may be false or biased. I know different methods to test whether online information is true or false. I know that I can input data into a spreadsheet before converting it into other types of chart/table that make analysis easier.	I can explain why I must keep my passwords private. I can explain whether a password would be effective or not. I can explain why some information must be kept offline. I know that programming can be used to create and debug a computer game.	I know that we all must be respectful online. I know that programming also allows us to control physical system	I know who I can speak to if I have concerns about content online. I know that I must advocate respectful behaviour online. I know what makes a website effective. I know that we must be cautious when clicking hyperlinks in webpages.
Computing Skills	I can use software to create, edit and publish video content I can analyse and evaluate my video and my classmates' videos with positive feedback and ideas for improvement.	I can explain how the world wide web provides opportunities for communication, collaboration and searching. I can explain how information is transferred across the internet. I can communicate my knowledge and ideas effectively and safely online.	I can collect, edit and analyse data using a spreadsheet in order to support event planning. I can input simple formulae into a spreadsheet to make calculations more streamlined.	I can independently design, write and debug a computer game using algorithms. I can use variables in my game to make it more exciting.	I can use coding skills to program and control a physical system to achieve a specific goal.	I can deploy my knowledge and skills to use a program to make content for an effective webpage, including hyperlinks.