

Computing Progression of Key Skills Reception – Year 6 Rev June 2022

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Reception	Online Safety Smartie the Penguin e Book - talking about good and bad choices. Basic Skills Using a mouse/ keyboard: Drag and drop pictures, write name	Basic Skills Using a mouse/ keyboard: Drag and drop practice Hour of Code activities	Basic Skills Importing pictures using right mouse button (2Publish) BHoC Sequencing/ programming Safer Internet Day activities	Basic Skills Using mouse to draw over an outline (2Publish) Lego Coding Express Designing a track and using arrows/stop/go to make a train move (iPad app)	Basic Skills Using mouse to draw pictures (2Paint a Picture) Lego Coding Express cont'd Designing a track and using arrows/stop/go to make a train move (iPad app)	BeeBots/BHoC Using arrows for directions Chromakey Using iPads to take photos using chromakey technology

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Year 1	Online Safety CEOP resources: Watching videos Technology around us Recognising technology in school and using it responsibly BHM activities	Online Safety Commonsense resources: 'Media Balance is Important' How do we find a happy balance between our online and offline activities? Digital painting Choosing appropriate tools in a program to create art, and making comparisons with working non-digitally Hour of Code activities	Online Safety CEOP resources: Chatting online Digital writing Using a computer to create and format text, before comparing to writing non-digitally. Safer Internet Day activities	Online Safety Commonsense resources: 'Pause for People' How do you say goodbye to technology when you don't want to? Grouping data Exploring object labels, then using them to sort and group objects by properties.	Online Safety CEOP resources: Playing games Moving a robot Writing short algorithms and programs for floor robots, and predicting program outcomes.	Online Safety Commonsense resources: 'Safety in My Online Neighbourhood' How do you go places safely online? Programming animations Designing and programming the movement of a character on screen to tell stories.

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Year 2 Online Safety CEOP resources: Sharing pictures Information technology around us Identifying IT and how its responsible use improves our world in school and beyond. BHM activities	Online Safety Commonsense resources: 'Pause & Think Online' How can we be safe, responsible and respectful online? Recognising the ways in which digital devices can be distracting Digital photography Capturing and changing digital photographs for different purposes. Hour of Code activities	Online Safety CEOP resources: Chatting online Making music Using a computer as a tool to explore rhythms and melodies, before creating a musical composition. Safer Internet Day activities	Online Safety Commonsense resources: 'How Technology Makes You Feel' Why is it important to listen to your feelings when using technology? Pictograms Collecting data in tally charts and using attributes to organise and present data on a computer.	Online Safety CEOP resources: Playing games Robot algorithms Creating and debugging programs, and using logical reasoning to make predictions.	Online Safety Commonsense resources 'Internet Traffic Light' How do you stay safe when visiting a website or app? Programming quizzes Designing algorithms and programs that use events to trigger sequences of code to make an interactive quiz.

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Year 3	Online Safety Commonsense resources: 'We, the Digital Citizens' How can we be good digital citizens? Connecting computers Identifying that digital devices have inputs, processes, and outputs, and how devices can be connected to make networks. BHM activities	Online Safety Commonsense resources: 'Device-Free Moments' Why is it important that we have device-free moments in our lives? Stop-frame animation Capturing and editing digital still images to produce a stop-frame animation that tells a story Hour of Code activities	Online Safety Commonsense resources: 'That's Private!' What kinds of information should I keep to myself when I use the internet? Desktop Publishing Creating documents by modifying text, images, and page layouts for a specified purpose. Safer Internet Day activities	Online Safety Commonsense resources: 'Digital Trails' What information is OK to have in your digital footprint? Branching databases Building and using branching databases to group objects using yes/no questions.	Online Safety Commonsense resources: 'Who Is in Your Online Community?' How are we all part of an online community? Sequencing sounds Creating sequences in a block-based programming language to make music.	Online Safety Commonsense resource 'Putting a STOP to Online Meanness' What should you do if someone is mean to you online? Events and actions in programs Writing algorithms and programs that use a range of events to trigger sequences of actions.

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Year 4	Online Safety Commonsense resources: 'Your Rings of Responsibility' How do digital citizens take responsibility for themselves, their communities and their world? The internet Recognising the internet as a network of networks including the WWW, and why we should evaluate online content. BHM activities	Online Safety Commonsense resources: 'Password Power-Up' How can a strong password help protect your privacy? Lego WeDo Making and programming a robot Data logging Recognising how and why data is collected over time, before using data loggers to carry out an investigation. Hour of Code activities	Online Safety Commonsense resources: 'This Is Me' How does what I post online affect my identity? Repetition in shapes Using a text-based programming language to explore count-controlled loops when drawing shapes. Safer Internet Day activities	Online Safety Commonsense resources: 'Our Digital Citizenship Pledge' What makes a strong online community? Photo editing Manipulating digital images, and reflecting on the impact of changes and whether the required purpose is fulfilled.	Online Safety Commonsense resources: 'The Power of Words' What should you do when someone uses mean or hurtful language on the internet? Repetition in games Using a block-based programming language to explore count-controlled and infinite loops when creating a game.	Online Safety Commonsense resources: 'Is Seeing Believing?' Why do people alter digital photos and videos? Audio editing Producing a podcast, including editing work, adding multiple tracks, and opening and saving audio files.

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 5	Online Safety Commonsense resources: 'My Media Choices' What makes a healthy media choice? Sharing information Identifying and exploring how information is shared between digital systems. BHM activities	Online Safety Commonsense resources: 'Private & Personal Information' What information about you is OK to share online? 3D Modelling Creating 3D objects & building using SketchUp Hour of Code activities	Online Safety Commonsense resources: 'Our Online Tracks' How does our online activity affect the digital footprints of ourselves and others? Lego WeDo Making and programming a robot Safer Internet Day activities	Online Safety Commonsense resources: 'Keeping Games Fun & Friendly' How can I help myself and others be positive and have fun while playing online games? Flat-file databases Using a database to order data and create charts to answer questions.	Online Safety Commonsense resources: 'Be a Super Digital Citizen' How can we be upstanders when we see cyberbullying? Vector drawing Creating images in a drawing program by using layers and groups of objects.	Online Safety Commonsense resources: 'a Creator's Rights & Responsibilities' What rights and responsibilities do you have as a creator? Selection in quizzes Exploring selection in programming to design and code an interactive quiz.

Commonsense resources: 'Finding My Media Balance' What does media balance mean for me? Communication & collaboration How data is transferred over the internet; how the internet facilitates online communication; how to communicate responsibly Communicate responsibly Commonsense resources: 'You Won't Believe This!' What is clickbait and how can you avoid it? Commonsense resources: 'You Won't Believe This!' What is clickbait and how can you avoid it? Webpage creation Designing and creating webpages, giving consideration to copyright, aesthetics, and navigation. Commonsense resources: 'Digital Friendships' How do you keep online friendships safe? What is cyberbullying? What is cyberbullying and what can you do to stop it? Variables in games Exploring variables when designing and coding a game. Variables in games Exploring variables when designing and coding a game. Variables in games Exploring variables when designing and coding a game. Variables in games Exploring variables when designing and coding a game. Variables in games Exploring variables when designing and coding a game. Variables in games Exploring variables when designing and coding a game. Variables in games Exploring variables when designing and coding a game. Variables in games Exploring variables when designing and coding a game. Variables in games Exploring variables when designing and coding a game. Variables in games Exploring variables when designing and coding a game. Variables in games Exploring variables when designing and coding a game. Variables in games Exploring variables when designing and coding a game. Variables in games Exploring variables when designing and coding a game. Variables in games Exploring variables when designing and coding a game. Variables in games Exploring variables when designing and coding a game. Variables in games Exploring variables when designing and coding a game.		Autumn 1 Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
by considering what should and should not be shared on the internet BHM activities ASCII art, exploring use of colours BHM activities	Year 6	Commonsense resources: 'Finding My Media Balance' What does media balance mean for me? Communication & collaboration How data is transferred over the internet; how the internet facilitates online communication and collaboration; how to communicate responsibly by considering what should and should not be shared on the internet Commonsense resources: 'You Won't Believe What is clickbait a how can you avoid is how can you avoi	rces: Commonsense resources: 'Beyond d Gender Stereotypes' How do gender stereotypes shape our experiences online? Variables in games Exploring variables when designing and coding a game.	Commonsense resources: 'Digital Friendships' How do you keep online friendships safe? Introduction to spreadsheets Answering questions by using spreadsheets to organise and calculate	Commonsense resources: 'Is It Cyberbullying?' What is cyberbullying and what can you do to stop it? Lego WeDo Making and programming a robot Introduction to Python Using 'print' for text & ASCII art, exploring	Python cont'd Using variables, encrypting & decrypting