



Computing Progression of Key Skills Reception –

Year 6 Rev June 2026

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Reception	<p>Online Safety Smartie the Penguin e Book Part 1 - talking about good and bad choices.</p> <p>Purple Mash Purple Mash general computing skills Mouse Skills.</p>	<p>Purple Mash Purple Mash general computing skills Keyboard Skills Mouse skills drag and drop.</p> <p>Hour of Code activities</p>	<p>Online Safety Smartie the Penguin e Book Part 2 - talking about good and bad choices.</p> <p>Robots and Directions Bee bots and arrows. Using robots and guiding them with directions. Using input buttons.</p> <p>Purple Mash Using Purple Mash with an Individual Login Logging into Purple Mash and navigating, exploring minimash.</p> <p>Safer Internet Day activities</p>	<p>Purple Mash Arts and Expressive Design 2paint and 2publish.</p> <p>Learning how to paint using technology.</p>	<p>Purple Mash Arts and Expressive 2beat and 2explore</p> <p>ChromaKey and Photography Using iPads to take photos using chromakey technology.</p>	<p>Purple Mash Understanding the World all about me / Simple city.</p> <p>Lego Coding Express Designing a track and using arrows/stop/go to make a train move (iPad app)</p>

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Year 1	<p><u>Online Safety</u> CEOP resources: Watching videos Jessie and Friends</p> <p><u>Purple Mash</u> Introduction to PM and Creative Computing</p> <p>Following instructions on how to access and save work while exploring Purple Mash. Creating digital content with sound and images.</p>	<p><u>Online Safety</u> 2BeSafe Health, Wellbeing and Lifestyle. Children begin to explain the rules that help them stay safe when using technology, both at home and in other places.</p> <p><u>Digital painting</u> Teach Computing: Creating media - Digital painting.</p> <p>Hour of Code week activities</p>	<p><u>Online Safety</u> CEOP resources: Sharing Pictures Jessie and Friends</p> <p><u>Purple Mash</u> Data Explorers</p> <p>Understanding how data is used and collected.</p> <p>Safer Internet Day activities</p>	<p><u>Online Safety</u> 2BeSafe Privacy and Security Children are introduced to the idea of passwords and how they help protect information, accounts, and devices.</p> <p><u>Purple Mash</u> Animated Stories Use technology purposefully to create, organise, store, manipulate and retrieve digital content.</p>	<p><u>Online Safety</u> CEOP resources: Playing games Jessie and Friends</p> <p><u>Purple Mash</u> Digital Literacy and Computer science.</p> <p>Creating & Following Instructions. Understand what algorithms are. Create and debug simple programs.</p> <p>Making music beats. Using technology to create music.</p>	<p><u>Online Safety</u> 2BeSafe Self-Image and Identity They learn when and how to tell a trusted adult if something worries them and understand that adults can help keep them safe.</p> <p><u>Purple Mash</u> Coding Use logical reasoning to predict the behaviour of simple programs. Create and debug simple programs.</p>

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Year 2	<p>Online Safety CEOP resources: Sharing pictures Jessie and Friends</p> <p>Purple Mash Introduction to PM and the internet.</p> <p>Recognise common uses of information technology beyond school.</p> <p>Using Interland to learn how to be respectful and kind while learning how to be safe online.</p>	<p>Online Safety 2BeSafe Health, Wellbeing and Lifestyle. Children begin to explain the rules that help them stay safe when using technology, both at home and in other Places.</p> <p>Purple Mash Coding</p> <p>Create and debug simple programs.</p> <p>Hour of Code activities</p>	<p>Online Safety CEOP resources: Chatting online interactive activity</p> <p>Purple Mash Spreadsheets</p> <p>Creating spreadsheets to organise data. Opening and saving their work.</p> <p>Safer Internet Day activities</p>	<p>Online Safety 2BeSafe Privacy and Security Children are introduced to the idea of passwords and how they help protect information, accounts, and Devices.</p> <p>Purple Mash Creating Pictures</p> <p>Creating digital pictures and using paint tools.</p>	<p>Online Safety CEOP resources: Playing games Jessie and Friends</p> <p>Purple Mash Questioning</p> <p>Collecting data, inputting data onto the computer.</p> <p>Route Explorers</p> <p>Understand what algorithms are. Using instructions.</p>	<p>Online Safety 2BeSafe Self-Image and Identity They learn when and how to tell a trusted adult if something worries them and understand that adults can help keep them safe.</p> <p>Purple Mash Presenting ideas and making music.</p> <p>Creating music in purple mash. Making mind maps to organise their ideas.</p>

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Year 3	<p><u>Online Safety</u> 2BeSafe Copyright and Ownership Children explore why copying someone else's work from the internet without permission is unfair and can cause problems.</p> <p><u>Purple Mash</u> Introduction to PM and Coding Exploring Purple Mash learning how to open and save work. Design, write and debug programs.</p>	<p><u>Online Safety</u> 2BeSafe Health, Wellbeing and Lifestyle Children explore the idea that spending too much time using technology can sometimes affect health, mood, sleep, or relationships.</p> <p><u>Programming Sequences</u> Teach Computing Programming A - Sequencing sounds in Scratch.</p> <p>Hour of Code activities</p>	<p><u>Online Safety</u> 2BeSafe Online Bullying Children discuss why it is important to behave appropriately towards others online.</p> <p><u>Purple Mash</u> Spreadsheets Performing calculations on a spreadsheet. Using the advance mode in 2 calculate.</p> <p>Safer Internet Day activities</p>	<p><u>Online Safety</u> 2BeSafe Online Reputation Children learn how to search for information about people online and think about what is safe or not safe to share about themselves.</p> <p><u>Purple Mash</u> Emails Sending emails and learning how to be safe when using emails.</p>	<p><u>Online Safety</u> 2BeSafe Privacy and Security Children are introduced to the idea of passwords and how they help protect information, accounts, and Devices.</p> <p><u>Purple Mash</u> Touch Typing and BBC Dancemat Typing Learning the correct way to type while finding the correct position for their hands, fingers and thumbs on the keyboard and keys.</p>	<p><u>Online Safety</u> 2BeSafe Self-Image and Identity Children are introduced to the idea of identity. They explore how people can show themselves in different ways online, such as through gaming characters, avatars, or social media profiles, and think about why someone might do this.</p> <p><u>Purple Mash</u> Presentation using Google Slides. Creating a powerpoint and learning how to add media animation and transitions.</p>

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Year 4	<p><u>Online Safety</u> 2BeSafe Copyright and Ownership Children explore why copying someone else's work from the internet without permission is unfair and can cause problems.</p> <p><u>Purple Mash</u> Introduction to PM Coding Learning how to sequence programs, Write and debug code. Using if/else statements in their code.</p>	<p><u>Online Safety</u> 2BeSafe Health, Wellbeing and Lifestyle Children explore the idea that spending too much time using technology can sometimes affect health, mood, sleep, or relationships.</p> <p><u>Purple Mash</u> Logo Creating a turtle. Using repeated loops and making a program to draw patterns.</p> <p>Hour of Code activities</p>	<p><u>Online Safety</u> 2BeSafe Online Bullying Children discuss why it is important to behave appropriately towards others online.</p> <p><u>Programming</u> Teach computing Programming B - Repetition in games Using scratch to make repeated programs in games.</p> <p>Safer Internet Day activities</p>	<p><u>Online Safety</u> 2BeSafe Online Reputation Children learn how to search for information about people online and think about what is safe or not safe to share about themselves.</p> <p><u>Purple Mash</u> Composing Beats Making music and arrangements with different effects and pitch.</p>	<p><u>Online Safety</u> 2BeSafe Privacy and Security Children are introduced to the idea of passwords and how they help protect information, accounts, and Devices.</p> <p><u>Purple Mash</u> Animation Making animations / claymation Learning how animation / claymation is used in films and cartoons.</p>	<p><u>Online Safety</u> 2BeSafe Self-Image and Identity Children are introduced to the idea of identity. They explore how people can show themselves in different ways online, such as through gaming characters, avatars, or social media profiles, and think about why someone might do this.</p> <p><u>Purple Mash</u> Introduction to AI Microbits Learning how to use AI safely. Programming microbits: making programs to run to the microbits.</p>

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Year 5	<p><u>Online Safety</u> 2BeSafe Copyright and Ownership Children explore why copying someone else's work from the internet without permission is unfair and can cause problems.</p> <p><u>Purple Mash</u> Introduction to PM Coding Making programs with variables, repetition and sequence.</p>	<p><u>Online Safety</u> 2BeSafe Health, Wellbeing and Lifestyle Children explore the idea that spending too much time using technology can sometimes affect health, mood, sleep, or relationships.</p> <p><u>Purple Mash</u> Coding External Devices Learning about input and output, coding with variables, sequencing and repetition.</p> <p>Hour of Code activities</p>	<p><u>Online Safety</u> 2BeSafe Online Bullying Children discuss why it is important to behave appropriately towards others online.</p> <p><u>Purple Mash</u> Spreadsheets Using spreadsheets to input data and calculate formulae.</p> <p>Safer Internet Day activities</p>	<p><u>Online Safety</u> 2BeSafe Online Reputation Children learn how to search for information about people online and think about what is safe or not safe to share about themselves.</p> <p><u>Purple Mash</u> Game Creator Using variables to make a 3D maze type game with lives, score and time.</p>	<p><u>Online Safety</u> 2BeSafe Privacy and Security Children are introduced to the idea of passwords and how they help protect information, accounts, and Devices.</p> <p><u>Purple Mash</u> Word Processing Learning how to use a word processor. Using tools, fonts, style and format, inserting media.</p>	<p><u>Online Safety</u> 2BeSafe Self-Image and Identity Children learn that online identities can be copied, changed, or altered. They start to think about the choices they make when creating their own online identity and how to do this responsibly, depending on the situation.</p> <p><u>Purple Mash</u> Microbits and makecode projects Programming microbits: making programs to run to the microbits. Using makecode to work on a project and create a program.</p>

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Year 6	<p><u>Online Safety</u> 2BeSafe Copyright and Ownership Children explore why copying someone else's work from the internet without permission is unfair and can cause problems.</p> <p><u>Purple Mash</u> Networking and blogs Understanding and learning about various network ports and the WWW (world wide web) Making their own blogs, using media.</p>	<p><u>Online Safety</u> 2BeSafe Health, Wellbeing and Lifestyle Children explore the idea that spending too much time using technology can sometimes affect health, mood, sleep, or relationships.</p> <p><u>Purple Mash</u> Coding Using variables and programming sequences and repetition.</p> <p>Hour of Code activities</p>	<p><u>Online Safety</u> 2BeSafe Online Bullying Children discuss why it is important to behave appropriately towards others online.</p> <p><u>Purple Mash</u> Spreadsheets Inputting data, using formulas to make calculations.</p> <p>Safer Internet Day activities</p>	<p><u>Online Safety</u> 2BeSafe Online Reputation Children learn how to search for information about people online and think about what is safe or not safe to share about themselves.</p> <p><u>Purple Mash</u> Python in pieces Learning python coding language.</p>	<p><u>Online Safety</u> 2BeSafe Privacy and Security Children are introduced to the idea of passwords and how they help protect information, accounts, and Devices.</p> <p><u>Purple Mash</u> 3D modeling And Sketch Up 3D CAD Making 3D shapes and Art gallery.</p>	<p><u>Online Safety</u> 2BeSafe Self-Image and Identity Children look more critically at online content and discuss how some representations - for example about gender, race, religion, or disability can be harmful or unfair. They learn why it is important to challenge stereotypes and reject inappropriate content.</p> <p><u>Purple Mash</u> Data detectives and Binary Looking at data and how to sort it in order. Learning Binary coding numbers.</p>
Cultural Capital	Code Club; Online safety assemblies, Competitions, trips.					