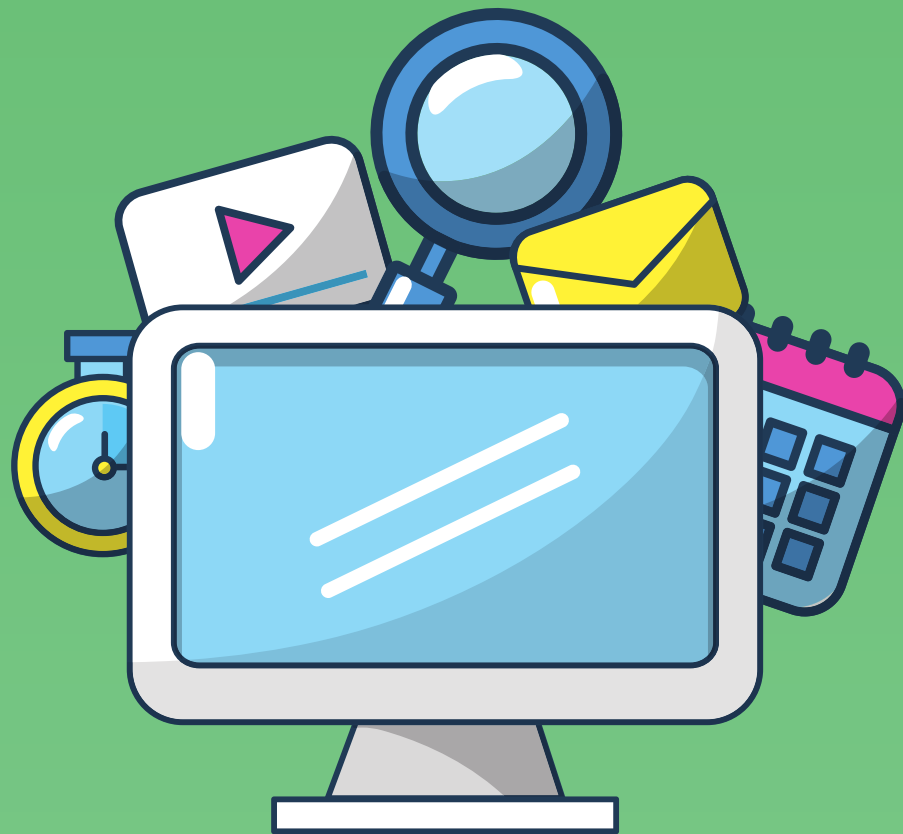


COMPUTING



Computing: Vision and Values

Acceptance	Achievement	Independence	Perseverance	Respect
We teach the children to accept that technology is a part of our everyday lives and that they will need a degree of computing skill for their education and in the workplace. We also teach the children to accept that technology can be used for good and bad and equip them to manage both, including how to keep themselves safe while using technology.	Our children feel proud of themselves when they are able to demonstrate and use a new skill they have learnt. They enjoy sharing their achievements with others in the classroom.	Our children are provided with the opportunities and resources to enable them to independently use the skills and knowledge they gain from their Computing learning.	Our children are required to show perseverance when learning and using a new skill as it may not go correctly the first time! Perseverance is key when coding and programming and children are encouraged to find their own solutions.	Our children are encouraged to share ideas and suggestions with each other. They are reminded that this is expected to be done in a polite and supportive way.

Computing– Overview



Nursery & EYFS

Have an understanding of technology around them

- Have some knowledge of E Safety – <https://www.childnet.com/resources/smartie-the-penguin/>
- Use a digital device to take a photograph (tablet)
- Use the touch screen feature of technology – IWB/tablet
- Use a password to login to a Chromebook with support (Summer in preparation for Year 1)

Computing– Overview



Key Stage One

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 1	<u>Technology around us</u> <ul style="list-style-type: none"> • Key Digital Skills • Introduction to Google Classroom 	<u>Creating media</u> <ul style="list-style-type: none"> • Digital painting • Paintz App 	<u>Creating media</u> <ul style="list-style-type: none"> • Digital writing • Canva • Clicker 	<u>Programming A</u> <ul style="list-style-type: none"> • Moving a robot • Bee Bots • Bee Bot online • J2e turtle 	<u>Data & Information</u> <ul style="list-style-type: none"> • Grouping data • J2e branch 	<u>Programming B</u> <ul style="list-style-type: none"> • Programming of animations • Scratch Jnr
Year 2	<u>IT around us</u> <ul style="list-style-type: none"> • Key Digital Skills • Introduction to Google Classroom 	<u>Programming A</u> <ul style="list-style-type: none"> • Programming quizzes • Scratch 	<u>Programming B</u> <ul style="list-style-type: none"> • Robot algorithms • Bee bots • Scratch 	<u>Data & Information</u> <ul style="list-style-type: none"> • Pictograms • J2e data pictograms 	<u>Creating media</u> <ul style="list-style-type: none"> • Digital music • Chrome Music Lab 	<u>Creating media</u> <ul style="list-style-type: none"> • Digital photography

Computing- Overview



Key Stage Two

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Year 3	Connecting Computers <ul style="list-style-type: none"> • Key Digital Skills • Introduction to Google Classroom 	Programming A <ul style="list-style-type: none"> • Sequencing sounds • Scratch 	Data & Information <ul style="list-style-type: none"> • Branching databases • J2Data branch and pictogram 	Creating media <ul style="list-style-type: none"> • Desktop Publishing • Canva 	Creating media <ul style="list-style-type: none"> • Stop frame animation • Canva 	Programming B <ul style="list-style-type: none"> • Events and actions in programming (Scratch)
Year 4	The Internet <ul style="list-style-type: none"> • Key Digital Skills • Introduction to Google Classroom 	Programming A <ul style="list-style-type: none"> • Repetition in shapes • Turtle Academy 	Programming B <ul style="list-style-type: none"> • Repetition in games • Scratch 	Data & Information <ul style="list-style-type: none"> • Data logging • Data logger (using a microbit as a data logger) 	Creating media <ul style="list-style-type: none"> • Photo editing • Canva • Use of AI 	Creating media <ul style="list-style-type: none"> • Audio production • Audacity
Year 5	Systems and searching <ul style="list-style-type: none"> • Key Digital Skills • Introduction to Google Classroom 	<ul style="list-style-type: none"> • Data & Information • Flatfile Databases • J2Data Database 	Creating media <ul style="list-style-type: none"> • Video Production • Canva video editor 	Programming A <ul style="list-style-type: none"> • Selection in quizzes • Scratch 	Creating media <ul style="list-style-type: none"> • Vector Graphics • Google drawings 	Programming B <ul style="list-style-type: none"> • Selection in physical computing • Crumble kit
Year 6	Communication and Collaboration <ul style="list-style-type: none"> • Key Digital Skills • Introduction to Google Classroom 	Creating media <ul style="list-style-type: none"> • 3D Modelling • Tinkercad • Workshop at UTC 	Data & Information <ul style="list-style-type: none"> • Spreadsheets • Google sheets or Excel 	Programming A <ul style="list-style-type: none"> • Variables in games • Scratch 	Creating media <ul style="list-style-type: none"> • Webpage creation • Canva site 	Programming B <ul style="list-style-type: none"> • Sensing movement • (Microbit and Microsoft Makecode)

Computing – Overview: Digital skills KS1

These digital skills should be taught alongside the Autumn 1 unit to improve computing literacy.

	Autumn 1 Unplugged and Digital Skills	Digital Skills to be put in
EYFS		<ol style="list-style-type: none"> 1. Have an understanding of different types of technology 2. Have some knowledge of e-safety 3. Use a password to login to Chromebook with support (Summer term prerequisite for year 1) 4. Use a digital device to take a photo (tablet) 5. Use the touch-screen feature of technology (tablet and IWB)

	Autumn 1 Unplugged and Digital Skills	Digital Skills to be put in
Year 1	<u>Technology Around Us</u>	<ul style="list-style-type: none"> • Use the mouse pad / mouse to left click on an item • Log on to a device with individual log on (potentially getting individual log in)g • Use the keyboard (space-bar, back space, delete, arrow keys and return) • Begin to use two hands when typing • Recognise uppercase letters on a keyboard / lowercase on Chromebook • I can use the dictate tool – clicker

	Autumn 1 Unplugged and Digital Skills	Digital Skills to be put in
Year 2	<u>IT Around Us</u>	<ul style="list-style-type: none"> • Independently log on and off a computer with individual log in details (year group at the moment) • Develop touch typing skills • Understand that Google Workspace saves work automatically to my drive – docs • Understand how to minimise/maximise • Understand how to open more than 1 tab in an internet browser • I can create a sentence – docs • I can write my own ideas using the keyboard – docs • I can go back and edit and improve a sentence – docs

Computing – Overview: Digital skills KS2

	Autumn 1 Unplugged and Digital Skills	Digital Skills to be put in
Year 3	<u>Connecting Computers</u>	<ul style="list-style-type: none"> • Use ctrl+C to copy and ctrl+v to paste – docs • I can open and edit a file from Google Drive (My drive and Shared drives) • I can open and access work shared by my teacher in my Google Classroom • I can work on a shared document with my classmates in Google Workspace/ Canva <ul style="list-style-type: none"> ◦ Open Google Classroom ◦ Join your class ◦ Read and respond with comments in streams ◦ Work with the To -Do list ◦ Find due assignments ◦ Google Classroom – Silver Badge ◦ Work with assignments ◦ Add files to assignments ◦ Hand in assignments ◦ Check feedback on work ◦ Create a new presentation ◦ Add slides ◦ Work with text boxes ◦ Insert images ◦ Work with animations

	Autumn 1 Unplugged and Digital Skills	Digital Skills to be put in
Year 4	<u>The Internet</u>	<ul style="list-style-type: none"> • I can change font style, size, and colours for a given purpose (Canva/ Docs/ Slides) • I can edit text • I can explain what 'page orientation/ page layout' means • I can choose a suitable layout for a given purpose • I can search, and insert images, videos directly in docs and slides • I can add and fill in a table in my work • I can save a document to Google Drive (My Drive or Shared Drive) • I can change the font size to make the text easier to read • I can use dictation in Google Docs • I can use reading mode in Google • I can change the background colour to make reading more comfortable for my eyes

	Autumn 1 Unplugged and Digital Skills	Digital Skills to be put in
Year 5	<u>Systems and Searching</u>	<ul style="list-style-type: none"> • I can collaborate with others using online versions in Google Workspace / Canva • I can organize my ideas in Google Slides using sections to tell a story or explain a topic. • I can share my Google Workspace resource with my teacher and classmates online. • I can use the dictation tool to help me speak what I want to say • I can contact my teacher through my Google Classroom Stream if I need support

	Autumn 1 Unplugged and Digital Skills	Digital Skills to be put in
Year 6	<u>Communication and Collaboration</u>	<ul style="list-style-type: none"> • Fully utilise all of the Google Workspace skills and able to select the right tool/app/programme for the right task • I can add columns in a Google Docs to create a 'newspaper style' layout • I can create a chart from a Google Sheets • I can independently select the correct accessibility tools to make tasks easier for me • I can use Google Form to create my own quizzes or surveys. • I can add different types of questions, like multiple choice or short answers, to my form. • I can share my form with my teacher and classmates to collect their responses. • I can view the answers to my form in graphs and charts to see the results clearly. • I can use Google Forms to answer quizzes or surveys made by my teacher.

Computing – E Safety

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Theme of the half term	Privacy & Security	Managing online information	Online relationships	Online bullying	Health, wellbeing & lifestyle	Copyright & ownership