Year 3

Computing and Digital Skills

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	Apps:	Web Resources:	LGfL resources:	Digital devices:
Computer Science </>	Scratch Jr Kodable Lightbot	Scratch Code for Life Code.org PurpleMash 2Code (subscription) Barefoot BBC Computing/Science Clips	J2Code Virtual Experiments	Makey Makey
Digital Literacy @	Safari Chrome	Switched On Online Safety Thinkuknow (Lee and Kim) BBC KS2 Computing 2Simple 2Email PurpleMash email	US Online CyberPass J2e J2Webby Office 365	Laptops Desktops iPad Tablets
Information Technology ⚒	J2Launch iMovie GarageBand Green Screen by DoInk (subscription) Book Creator Kahoot! Apple Pages/ Numbers	Dance Mat typing (BBC) 2Simple 2Type PurpleMash Brown Bear typing Primary Games Arena Book Creator Microsoft Word/ Excel Google Docs/ Sheets	J2e Weather Stations Busy Things J2Webby	Data Loggers Digital camera iPad Tablets Microphones Sound buttons

🌐 https://www.islingtoncs.org

🐦 #islingtoncomp #islingtonschools

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</> Computer Science

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National Curriculum (by the end of KS2)

Unplugged:

- ❖ Solve problems by decomposing them into smaller parts
- ❖ Use logical reasoning to explain how some simple algorithms work

Coding/Programming:

- ❖ Detect and correct errors in algorithms and programs
- ❖ Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems
- ❖ Use sequence, selection and repetition in programs
- ❖ Work with variables
- ❖ Work with various forms of input and output

Key Skills/Objectives:

- ▪ I can plan and enter a sequence of instructions on a robot/sprite to achieve specific outcomes
- ▪ I can test and improve/debug programmed sequences
- ▪ I can use loops (repeat/forever) to achieve solutions to tasks
- ▪ I can use computational thinking to solve open ended problems
- ▪ I can talk about algorithms planned by others and identify any problems and the expected outcome
- ▪ I can explain how algorithms work, predicting outcomes and debugging

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Supporting Units of Work

Islington:
- ❖ Unit Scratch – Drawing Shapes
- ❖ Makey Makey projects

Additional Documents:
- ❖ Scratch: Progression Yr 3-5

Barefoot:
- ❖ Unplugged: Decomposition (Re-visited)
- ❖ 2D Shape Drawing Debugging
- ❖ Logical Reasoning
- ❖ Unplugged: Abstraction
- ❖ Patterns Unplugged – Reusing recipes
- ❖ Scratch Tinkering/ (SEND) Scratch Tinkering
- ❖ Shapes and Crystal Flowers (Scratch)
- ❖ (SEND) Musical Sequences Activity
- ❖ World Map Logic Activity
- ❖ Make a Game Project (Scratch)

Examples of Cross Curricular Links

- ✓ Create games/simulations linked to topics using Scratch – conversations, stories, fact file
- ✓ Use Scratch to create virtual tours around key locations – school, London, countries
- ✓ Use a Maths function machine to relate Input/ Output and variables
- ✓ Use computer simulations via LGfL Virtual Experiments or BBC Science clips

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National Curriculum (by the end of KS2)

- ❖ Use technology safely, respectfully and responsibly
- ❖ Recognise acceptable / unacceptable behaviour
- ❖ Identify a range of ways to report concerns about content and contact
- ❖ Understand how computer networks, including the internet, can provide multiple services (such as the World Wide Web) and the opportunities they offer for communication and collaboration
- ❖ Use search technologies effectively
- ❖ Appreciate how search results are selected and ranked

Key Skills/Objectives

- ▪ I can use an age appropriate search engine independently
- ▪ I understand plagiarism when using copy/paste from a webpage
- ▪ I know the difference between fact, fiction and o[pinion online
- ▪ I can explore and discuss the benefits of a range of online communication tools
- ▪ I know how to respond to unpleasant communications
- ▪ I understand the need to keep personal information private and am responsible in my online presence
- ▪ I can create and use a basic email service
- ▪ I know the difference between personal, private and public online spaces and the risks associated with these
- ▪ I understand that there are rules about using public spaces online
- ▪ I know that some videogames and online services are not appropriate for my age

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Switched On Online Safety:

Unit 3.1 – We are Year 3 rule writers
Unit 3.2 – We are digital friends
Unit 3.3 – We are internet detectives
Unit 3.4 – We are aware of our digital footprint
Unit 3.5 – We are netiquette experts
Unit 3.6 – We are avatar creators

**SWITCHED ON
Online Safety**

Examples of Cross Curricular Links

✓ Create a presentation about a Sports personality and then publish to a blog
✓ View and comment on others' work on a blog
✓ Write emails to class mates in the style of a historic period or to report a newsworthy event in history (e.g. a Volcanic eruption)

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🔧 **Information Technology**

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National Curriculum

- ❖ Be discerning in evaluating digital content
- ❖ 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, systems and content that accomplish given goals including collecting, analysing, evaluating and presenting data and information

Remember to:
- give pupils opportunities to publish their written work digitally
- provide sharing opportunities across the wider community
- share tips with parents/carers

Key Skills/Objectives

- I can create and insert music and sounds into presentations and documents
- I can create and manipulate digital artwork
- I use reasoning about the quality and composition of images
- I can perform basic editing on images/video – crop, recolour, resize
- I can use numerous design features such as text boxes, borders and WordArt in different layouts and styles
- I can use a variety of presentation software to make a sequence of slides
- I can add to, sort and search a database (including branching)
- I can interrogate a simple database to answer questions and create charts from the data
- I can use spreadsheet cell references
- I can format cells and text appropriately
- I can use a data logger to capture measurements over time

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Examples of Cross Curricular Links

- ✓ Use audio tools to add sound effects to their writing and record
- ✓ Edit and illustrate shape poems
- ✓ Combine images/video/audio to create e-books
- ✓ Make an animation of the changing seasons or a growing plant
- ✓ Write and present a newspaper article
- ✓ Create a weather forecast from around the world
- ✓ Create a poster or tourist leaflet connected to other subjects

Examples of Cross Curricular Links

- ✓ Create a topic quiz using a quiz maker (e.g. Kahoot)
- ✓ Create a podcast or radio broadcast linked to a key period in time
- ✓ Create an Estate Agency database for Roman property
- ✓ Use weather station data to compare weather across the UK
- ✓ Use data logger to identify ideal plant growing conditions
- ✓ Create a non-fiction book using a range of audio, visual and text elements