

## Switched on Computing Third Edition: Contents

Unit	Title	Focus	Main hardware/ software	Alternative hardware/ software	Computing PoS focus
1.1	We are treasure hunters	Solving problems using programmable toys	Blue-Bots Blue-Bot app	Other programmable toys Scratch Bee-Bot emulator	Computer Science: Coding
1.2	We are TV chefs	Filming the steps of a recipe	iPads Camera app iMovie	Laptop/desktop computers Digital cameras Android tablets WeVideo Microsoft Photos	Computer Science: Computational thinking
1.3	We are digital artists	Creating work inspired by great artists	iPads Brushes Redux Autodesk Sketchbook	Laptop/desktop computers Chromebooks Android tablets Microsoft Paint/Paint 3D PaintZ for Chromebook	Information Technology: Creativity
1.4	We are publishers	Creating a multimedia eBook about our achievements	iPads Book Creator Google Photos	Laptop/desktop computers Chromebooks Google Slides Microsoft PowerPoint	Digital Literacy: Online safety
1.5	We are rhythmic	Creating sound patterns in ScratchJr and GarageBand	iPads GarageBand ScratchJr	Laptop/desktop computers Chromebooks Scratch Audacity, LMMS, Soundtrap	Information Technology: Media
1.6	We are detectives	Using data to solve clues	iPads Popplet Google Forms Google Sheets	Laptop/desktop computers Chromebooks FreeMind, Bubbl.us, MindMeister Microsoft Forms and Excel	Information Technology: Data



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2.1	We are astronauts	Programming on screen in ScratchJr	iPads ScratchJr	Laptops/desktops/Chromebooks Android tablets Blue-Bots or Bee-Bots Scratch	Computer Science: Coding
2.2	We are games testers	Working out the rules for games	iPads Scratch Laptops/desktops/Chromebooks FixTheFactory	Android tablets Blockly Games	Computer Science: Computational thinking
2.3	We are photographers	Taking, selecting and editing digital images	iPads Camera app Photos app Snapseed	Android tablets Laptops/desktops/Chromebooks Digital cameras Pixlr, Windows Photos	Information Technology: Media
2.4	We are safe researchers	Researching a topic	iPads Popplet Google Slides Google custom search	Android tablets Laptops/desktops/Chromebooks FreeMind Microsoft PowerPoint, Keynote	Digital Literacy: Online safety
2.5	We are animators	Creating a stop-motion animation	iPads Stop Motion Studio	Android tablets Laptops/desktops/Chromebooks Digital cameras iStopMotion, Zu3D Stop Motion Animator	Information Technology: Media
2.6	We are zoologists	Collecting data about bugs	iPads Google My Maps Google Docs/Sheets/Slides Camera and Photos apps	Laptops/desktops/Chromebooks Digital cameras Windows Maps Microsoft suite	Information Technology: Data



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3.1	We are programmers	Programming an animation	Laptops/desktops/Chromebooks Scratch	Android tablets Cameras and microphones ScratchJr	Computer Science: Coding
3.2	We are bug fixers	Finding and correcting bugs	Laptops/desktops/Chromebooks Scratch Screen recorder software	Android tablets Snap!	Computer Science: Computational thinking
3.3	We are presenters	Videoing a presentation against a green screen	iPads Green screen background Tripods and iPad mounts Popplet iMovie	Camera app Microsoft Photos Adobe Premiere Elements	Information Technology: Media
3.4	We are who we are	Creating presentations about ourselves	Laptops/desktops/Chromebooks Google Slides Screen recorder software	iPads or Android tablets Microsoft PowerPoint	Digital Literacy: Online safety
3.5	We are co-authors	Producing a wiki	Laptops/desktops Google Sites Popplet	iPads or Android tablets Chromebooks	Information Technology: Media
3.6	We are opinion pollsters	Collecting and analysing data	Laptops/desktops/Chromebooks Google Forms Google Sheets Google Slides Google Drive	iPads or Android tablets Microsoft equivalents j2vote, j2data and j2office	Information Technology: Data



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4.1	We are software developers	Developing a simple educational game	Laptop/desktop computer Scratch	Snap! Pyonkee	Computer Science: Coding
4.2	We are makers	Coding for micro:bit	Laptop/desktop computer micro:bit Microsoft MakeCode	Crumble	Computer Science: Coding
4.3	We are musicians	Creating a piece of music in GarageBand	iPad GarageBand	LMMS	Information Technology: Media
4.4	We are bloggers	Sharing experiences and opinions	Laptop/desktop computer Digital camera WordPress or Blogger	Audio recorders or tablets	Digital Literacy: Online safety
4.5	We are artists	Fusing geometry and art	Laptop/desktop computer Scratch Inkscape Terragen	Logo Adobe Ideas Pyonkee Snap!	Computer Science: Coding
4.6	We are meteorologists	Recording and presenting the weather	Equipment for measuring weather Microsoft Excel Microsoft PowerPoint Keynote	Google suite	Information Technology: Data



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Unit	Title	Focus	Main hardware/ software	Alternative hardware/ software	Computing PoS focus
5.1	We are game developers	Developing an interactive game	Laptops/desktops/Chromebooks Scratch	Microphones (optional) Snap! Kodu	Computer Science: Coding
5.2	We are cryptographers	Cracking codes	Laptops/desktops/Chromebooks iPads or Android tablets Scratch	Snap!	Computer Science: Computational thinking
5.3	We are architects	Creating a virtual space	Laptops/desktops/Chromebooks iPads or Android tablets Trimble SketchUp Screen recorder	CoSpaces Minecraft Education Edition	Information Technology: Media
5.4	We are web developers	Making sense of the Internet and building a website	Laptops/desktops/Chromebooks iPads or Android tablets Google Chrome Google Sites	N/A	Digital Literacy: Online safety
5.5	We are adventure gamers	Creating an interactive adventure using presentation software	Laptops/desktops/Chromebooks Google Slides Voice recorder	iPads Microsoft PowerPoint	Information Technology: Media
5.6	We are VR designers	Experimenting with virtual and augmented reality	iPads or Android smartphones Google Cardboard Google Street View GarageBand CoSpaces	N/A	Information Technology: Media



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Unit	Title	Focus	Main hardware/ software	Alternative hardware/ software	Computing PoS focus
6.1	We are toy makers	Coding and physical computing	Laptops/desktops/Chromebooks micro:bits MakeCode Scratch	iPads or Android tablets	Computer Science: Coding
6.2	We are computational thinkers	Mastering algorithms for searching, sorting maths	Laptops/desktops/Chromebooks Scratch	iPads Snap!	Computer Science: Computational thinking
6.3	We are publishers	Creating a yearbook or magazine	Laptops/desktops/Chromebooks Digital cameras or iPads Google Docs	Book Creator Microsoft Word	Information Technology: Media
6.4	We are connected	Developing skills for social media	Laptops/desktops/Chromebooks Digital cameras or iPads School blogging platform Padlet	Audio recorders or other tablets	Digital Literacy: Online safety
6.5	We are advertisers	Creating a short television advert	Laptops/desktops/Chromebooks Digital cameras or tablets iMovie	Green Screen	Information Technology: Media
6.6	We are AI developers	Learning about artificial intelligence and machine learning	Laptops/desktops/Chromebooks iPads Scratch Machine Learning for Kids Audacity Google Chrome	Smart speaker (Google Home/ Amazon Echo)	Computer Science: Coding