



	Autumn	Spring	Summer
	Focus: Digital Productivity (IT) Typing skills, IT best practice, generic software, internet skills	Focus: Computing (CS) Computational thinking, gaming, programming & coding, models & simulations, technical terms, hardware & software	Focus: Digital Creativity (DL) Animation & video, 2D & 3D design, e-books, photography, movies
Jnit 1	 Digital Art Doodle Buddy – canvas, pen colour. Free play creative piece – upload to Seesaw & comment Seesaw Class Badge Create basic pictures in Pages using shapes (introduction to basic formatting options, resize, move options and rotate) 	 Introduction to coding: Key terms (code, commands, stage, sprite, algorithm, sequence) Role-play coding – create and use command cards (blank template) in groups to get one another to complete challenges e.g. start, move forward, turn left, jump, stop Activity: Dance Algorithm Daisy the Dino (challenge mode then free play mode) Tynker Jr – Oceans Odyssey game 	Typing skills – introduction to the keyboard. Show/hide, shift key, caps lock, return, delete. Use of Word Burst and Animal Typing:Lite
Init 2	 Word processing basics – typing numbers, letters and symbols, move down a line (enter). Selecting text and click options. Basic formatting (font, size, bold, italic, underline, colour, alignment) Activity: write name on different lines and use a range of formatting options. Upload to Seesaw (intro app, QR code, +, upload video/photo, annotation page, upload tick, pending approval, comment, journal). Learn how to take a screenshot 	 Coding in Scratch Jr: Set background, select and delete sprites, trigger green flag, stop block, movement (forward/back/jump/turn), end loop, use of gridlines. Saving, removing code, full screen open/exit Activity: Rocket on a continual loop through space. Screenshot and upload to Seesaw. Hour of Code activities – Pre-reader e.g. Beaver Achiever 	 Introduction to Keynote (Animals). 4 slides on 4 different animals. Title, image, description (background, text, image options, transition effects) Internet explorer. Search engines and simple searches (Google). Result numbers and ranking. Tab options (image, video, news etc). Activity – finding things online – how to use key words, ranking, adverts, tabs. Screenshot web search – upload to Seesaw Extension – basic image search. Screenshot image search – upload to Seesaw and annotate

Unit 3

Digiduck stories: 1) Digiduck Saves the Day and email, 2) Digiduck's famous friend and activities https://www.childnet.com/resources/digiduck-stories/
 Activities: Create an online nickname, Seesaw Party Voting
 iPad basics (open/close apps, navigate desktops, search apps, identify common apps, lock screen)
 Saving and opening files
 Christmas picture on pages



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Unit 1	 iPad basics recap (lock screen, screenshot, double tab home, swipe close apps, swipe down search apps) Recap Seesaw: Class Badge Guess The Alien – type clues for your partner to guess which alien you have chosen from the picture 	 Coding: Key terms: code, programming, commands, stage, sprite, algorithm, sequence, grid Coding in Scratch Jr – editing sprites and backgrounds, using gridlines to calculate distance. Resize sprites, flip sprites. Trigger tap sprite. Speech, add scene, end block change scene. Activities (upload Pages evidence to seesaw): 1. resize car and move along a road (include a character and speech). 2. Sun goes down scene change to night scene. 3. A spooky forest (tap sprites to trigger) 4. Program a race using speed 	 Typing practice in Word Burst and Animal Typing:Lite 'Write a story' activity – retell your summer/retell your favourite story. Typing practice and speed.
Unit 2	E cofety.	blocks Tynker Jr - Game Studio - Deep Sea Salvage Coding activities in Coding Sofori elegation (Asympto Atible)	
	 E-safety: Smartie the Penguin ppt 1 with poster to colour Record an e-safety video with E-safety song and upload to Seesaw Smartie the Penguin ppt 2 Do's and Don'ts slides on Seesaw Drawing app, what you should and shouldn't do on the internet 	 Coding activities in Coding Safari alongside Keynote (title page, one screenshot per slide of each animal game with a title and explanation). Key presentation terms: slide, text, image options, layout options background, formatting options (font colour/style) 	 Create a comic called "Animal Madness" in Book Creator (frames/gutters, speech/thought bubbles, add text, add image, add page, navigate). Max 3 frames per page. Create scenes in Scratch Jr using backgrounds and Sprites. Use object sprites e.g. weather, plants etc

OVEDA	Dovedale	
PRIMARYSO	Primary School	
Unit 3	 Word processing basics (Pages) – zoom, spelling/grammar checks, font basics, shapes, 	'This year was incredible' activity – camera for selfie, pen tools to create mask, text box
	font size, alignment, add objects	options (colour, text) to enter highlights.
	(image/shape/text/line)	- u
	Christmas Advent Calendar on Pages (images	Further coding:
	from the internet hidden behind numbered	Hour of Code - Al for Oceans
	shapes)	Hour of Code – Flappy Bird Game
	Activity: Create a character – draw your character using the drawing tool in pages use	Extension extras:
	character using the drawing tool in pages, use text boxes to annotate with adjectives,	 Isle of Tune/Garage Band music lessons
	format the text (colour/size/font)	- isic of fulle/ datage ballu filusic lessofts
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Seesaw activities: 1) Create a class logo – text box, emojis. Colour, font, alignment, background, shapes 2) Typing activity in notes: 'A Typical Day' (using emojis)	 Recap coding terms from KS1: what is an algorithm? https://www.youtube.com/watch?v=Da5TOXCwLSg Students to call out commands for the teacher (move around room and complete a task) What is coding? https://www.youtube.com/watch?v=XMZFUnAgOqs Key things to remember: Not just digital, need to be specific, must include every step, must follow syntax rules. Computers follow commands – this could result in no output/wrong output due to human error. Space Cadets programming in Tynker – upload evidence to Seesaw: Simple algorithm – annotate screenshot to show use of commands in a correct sequence Loops (screenshots and a Pages PDF explaining the use of as repeat block) Debugging – annotate to explain what debugging is (debugging theory 	 Word processing - formatting (font style, colour, highlight, emphasis bold/italic/underline, text effects glow/reflection/shadow/outline, line weight) 7 sentences activity and short story – upload to Seesaw
 Typing skills – Dance Mat typing, home row, recap alternative keys Word Burst typing game 		 Creating simple drawings in Doodle Buddy (1. Import background, 2. Creative piece) Create a stain glass window in Paint
	Typing skills, IT best practice, generic software, internet skills Seesaw activities: 1) Create a class logo – text box, emojis. Colour, font, alignment, background, shapes 2) Typing activity in notes: 'A Typical Day' (using emojis) • Typing skills – Dance Mat typing, home row, recap alternative keys	Typing skills, IT best practice, generic software, internet skills Seesaw activities: 1) Create a class logo – text box, emojis. Colour, font, alignment, background, shapes 2) Typing activity in notes: 'A Typical Day' (using emojis) • Recap coding terms from KS1: 1. what is an algorithm? https://www.youtube.com/watch?v=Da5TOXCwLSg Students to call out commands for the teacher (move around room and complete a task) 2) What is coding? https://www.youtube.com/watch?v=XMZFUnAgOqs Key things to remember: Not just digital, need to be specific, must include every step, must follow syntax rules. Computers follow commands – this could result in no output/wrong output due to human error. • Space Cadets programming in Tynker – upload evidence to Seesaw: 1) Simple algorithm – annotate screenshot to show use of commands in a correct sequence 2) Loops (screenshots and a Pages PDF explaining the use of as repeat block) 3) Debugging – annotate to explain what debugging is (debugging theory https://www.youtube.com/watch?v=CGPjraqX ac) • Typing skills – Dance Mat typing, home row, recap alternative keys

Unit 3			Sketch.io – interface overview (background options, transparent canvas, tools, undo) 1) Create 6 shapes: fill/outline colour (solid, linear, radial, pattern), line bevel/mitre/round, line width, noise, opacity, rotate, resize, delete, settings sliders (spread/whirl/sides/cutout). Upload to Seesaw and annotate 2) Editing Clipart: fill options (vector/pixel), adjust hue/tint/warmth. Upload to Seesaw and annotate.
	 Presentation basics in Keynote (sport/hobby) –backgrounds, Word Art, formatting text, use of text boxes, custom animation, slide transitions, effective use of images. Export as a movie to Seesaw. Link to internet explorer – tab options, blocked sites, moving between applications, followed hyperlinks 	 Coding in Scratch Jr – progress to harder concepts: 1) Animation using wait 2) Parallel algorithms (basketball move across and bounce) https://www.youtube.com/watch?v=I5YTqvbyH3E (theory) https://www.youtube.com/watch?v=aJetEiEueEQ (example) 	Photography using iPads and PicCollage – 'My School': 1) Photography skills (range, focus, angle, foreground, background, frame) 2) Editing skills (crop, filters, delete, adjust, brightness, cool/warm, noir) 3) PicCollage – backgrounds, layout, stickers, text (font, colour text and box), animate Extension extras: Hour of Code – Minecraft, Star Wars, Make your own Kodable Mazes





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Unit 1	 Typing Skills – Typing.com practice and tests. Typing games e.g. typing.com Recap touch typing theory 	 Recap coding terms. Recap broadcasts, sprite editing and change scene: 2 pages – background on scene one, 'the end' on scene two (use of text settings) Insert 2 sprites - scene 1: sprite X change colour fill, sprite Y add detail using pen options e.g. hat/flower. Flip to face each other, resize, position Code: move toward (use of gridlines), simple conversation using envelopes (X, Y, X) Sprite X change scene Scratch Jr Project -create animation using up to 4 scenes. Must use movement, speech and broadcasts. Try and use loops and parallel coding e.g. basketball motion or resize as move up the stage (to give impression of moving away) Importance of planning – design sheets for layout, backgrounds, sprite and code Book Creator – overview of final animation. Title page and scene pages. Background, images, text boxes, font options. Extension – annotate screenshots to explain code. Convert to PDF (single pages) – upload to Seesaw. 	 Introduction to Apple Pencil – pairing a device Using Apple Pencil in Apple Notes – pen to text, pen, highlighter, crayon, open settings, lasso, ruler, eraser (object/pixel). Learn how to use shape recognition to create clouds, hearts, stars and common shapes. Introduction to Procreate: brush library, blend, opacity, colours options. Experiment with brush options (ink technical and thylacine, pencil shading, paint flat brush opacity blobs, abstract stormbay, spraypaint splatter and drip) Texture wood, materials furneaux, industrial stone wall, organic paper daisy & swordgrass, Half black, half blue. Black luminance and flame. Blue oceans and clouds Annotate screenshot to show tools Activities to practice layers, background adjustments & symmetry, colour select and fill: Trace a picture Trace an inspirational quote Create a symmetrical picture.





			 Extension if needed: Sketch.io – exploring pen options: Exploring font options (name). Decorate with shapes and clipart Paintz.app – Experiment with tools and design a picture
Unit 2	 Information sheet on networks and the internet: PAN/LAN/WAN, URLs & IP addresses, bits/bytes, bandwidth ethernet/fibre-optic/WIFI, network topologies (star/ring/bus/mesh). Ppt for theory/videos. 'Networks and the Internet' exemplar. Apple Pages word processing skills – shapes (fill/outline/shadow/line width, reflection, opacity, arrange, fonts (and editing), tables (and editing), bullets (personalised), image options, rotate Internet – image searches (key words, filter options, tools, transparency, copy to new app) 	 Scratch 3.0 activities: 1) Basic joke (using wait or broadcast). Explore all new options for backgrounds and sprites, introduce costumes, rotate, coordinates and resize. 2) Animate a name (rotate, colour, size, trigger options) 	 Quizzes in Scratch – stage and sprite options, code: ask and wait; if/else; say for x secs; operators (=); sprite settings (say, change colour, clear graphics, extension: loops to rotate 360/whirl, glide to multiple coordinates), sensing (answer), variables (scoring: set; change; show; hide) Code testing and debugging Screenshot evidence and annotate
Unit 3	 Presentation advanced (PC Basics topic) – progression to tables, custom animation settings, shape art, timings, click/with/after options Theory covered – hardware, software, operating systems, input/output/process, input devices, output devices 	 Flowcharts in PureFlow – create flowcharts for brushing your teeth and making a cup of tea (ppt available). Upload to Purple Mash. 	 Use the annotation tools in Seesaw to decorate a picture e.g. Christmas Tree Create a collage using PicCollage features – background, text, stickers, animation, frames





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Init 1	 Typing Skills (Touch typing practice on Typingclub.com) Recap touch typing theory Online typing games to increase speed and accuracy 	 Refresh coding terms Q&A: command, algorithm, sequence, iteration, debugging. New terms introduced throughout unit: abstraction, decomposition, conditionals, functions, variables Dragon Spells in Tynker – upload evidence to seesaw: Pages PDF demonstrating iteration and explaining 3 options (repeat set number, repeat forever, repeat forever until) PDF theory/evidence of a conditional (e.g. IF icefly) – annotate to show understanding. Screenshot evidence: a) abstraction (eliminate dragons) https://www.youtube.com/watch?v=N1A9qkWs538&t=13s b) function (create own) https://www.youtube.com/watch?v=3JIZ40yuZL0 (Class discussion real life function examples (reusable, multisteps): brush teeth, cup of tea. Create function diagrams in Word and upload to Seesaw (see exemplar) c) decomposition (long level) https://www.youtube.com/watch?v=8HFqzzZxV9k 	 Sketch.io - complete 4 challenges using various techniques: name in rainbow calligraphy; snowflake/pattern; animal ('fur'); tree ('sketchy' & stamp shade variations) Procreate activities: Flower (layers, alpha mask, airbrushing, layer mask) Rain drop animation Snail animation Creative animation
nit 2	 Digital Wellbeing – pair/group/class discussions on the positive/negative of technology on: relationships, health, work, the environment Information sheet on digital wellbeing created in Microsoft Word – use of font 	Further Coding: 1) Scratch 3.0 – create a pong game (go to coordinates, wait until, sensor touching colour, play sound, point in direction, turn angle, if on edge bounce, forever loop, stop all, variables) 2) Hour of Code: dance party (annotated evidence in Pages), Minecraft (annotated screenshot)	Stop Motion Animation 1) Animate your name 2) Creative project (pair/group work) Use of frames, stills, onion skin, timeline, speed (frames/sec), playback Photography skills - angle, range, landscape/portrait, capture, timer, grid

	options, crop, rotate, image effects, wrap text, emojis, tables, header/footer
	Use of internet (information/images) —
	moving content between applications
	Christmas activities:
	Create an Emoji quiz in Pages using
	tables, emoji keyboard, font options and
	formatting
Unit 3	Create a quiz in kahoot: use of internet
Onics	to research topic and gather
	images/YouTube video clips; create a
	combination of multiple choice and
	true/false questions, adjust quiz
	settings. Test on a group.



Dovedale Primary School

ELMS COMPUTING CONSULTANCY

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Unit 1	 Typing Skills - practice touch typing skills on Typing Club. Play typing games on typing.com Refresh coding terms (poster in Word for following terms: abstraction, decomposition, conditionals, functions, variables) 	 Swift Playground - decomposition, pattern recognition, functions, debugging (logical reasoning), loops, conditionals. Nested loops demo https://studio.code.org/s/course3/lessons/13/levels/3 Upload/annotate screenshot evidence to Seesaw: 1) Commands—shortest route (efficient coding) 2) Create own function (turn right) 3) Nested function (nested patterns level) 4) Using loops level — annotate benefit (saves time, reduces errors, saves storage/memory) 5) Advanced — 'branch out' level: repeats within a function 	Procreate 1) Create a landscape activity https://www.youtube.com/watch?v=y3kllAxxlu0 2) 4 challenges – ink tattoo, pencil sketching (fruit), cartoon-style tracing, creative piece 3) Light picture animation 4) sketch.metademolab alien animation 5) Bouncing ball animation (include frame hold and image freeform snapping to squash ball)
Unit 2	 Digital Footprints: What is it and why should I care? https://www.bbc.co.uk/programmes/p06z2lvy Create your own digital footprint (seesaw activity) 	 SpriteBox Coding 1. Create an avatar 2. Complete SpriteBox:Code Hour 3. Progress to SpriteBox Coding 4. Create a user guide in Book Creator 	 Group Project Create a movie trailer in iMovie (theme, storyboard, structure, edit shot, title style, logo style, captions) Videography skills – closeup/medium/wide,
	 2) Social Media age dilemma (seesaw activity) – do yiou agree with 12 plus? PowerPoint Project - Social Media Apps and risks 1) Theory – cyberbullying, age restrictions, privacy settings, subscriptions, scroll addiction, desensitisation, popups, targeted marketing, notifications, block, like, share, chat, post, catfishing 	5. Export as a movie to Seesaw	 landscape, action, group BBCMicro:Bit Coding (models & simulations) 1) Create an LED message 2) Operate a traffic light

• 2) Presentation techniques – formatting
options for text/images/shapes, slide layout,
text/image/button navigation hyperlinks,
animation/transition effects