

Nursery and Reception	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Key Skills Strand 0 (Sheffield elearning Service)	Ensure children's ' school readiness ' and ' give them a broad range of knowledge and skills that provide the right foundation for good future progress through school and life ' - Statutory Framework for EYFS September 2021. Computational Thinking ideas Rationale from Barefoot Computing here					
<ul style="list-style-type: none"> - Use different digital devices. - Recognise that you can access content on a digital device. - Use a mouse, touchscreen or appropriate access device to target and select options on screen. - Recognise a selection of digital devices. - Recognise the basic parts of a computer, e.g. mouse, screen, keyboard. 	<p>Barefoot Computing- Awesome Autumn</p> <p>Technology around us</p> <p>https://www.ilearn2.co.uk/computerdiscoveryfree.html</p> <p>http://code-it.co.uk/wp-content/uploads/2015/05/bankplan.pdf</p>	<p>Barefoot Computing- Winter Warmers</p>	<p>Barefoot Computing- Busy Bodies</p> <p>Music creation</p> <p>https://www.ilearn2.co.uk/freeyear1musiccreation.html/</p> <p>https://springroll-tc.pbskids.org/music-maker/d0f261dff-c3c8f713fa5a22-bb99d7f9afd04cb56/release/index.html</p>	<p>Barefoot Computing - Springtime</p> <p>Cooking</p> <p>Jam sandwich http://swaygrant.ham.co.uk/wp-content/uploads/2016/09/JamSandwichAlgorithm.pdf</p> <p>Pizza https://www.barefootcomputing.org/docs/default-</p>	<p>Barefoot Computing- Boats Ahoy</p> <p>Art</p> <p>https://www.j2e.com/jit5</p> <p>Art and algorithms</p>	<p>Barefoot Computing- Summer Fun</p> <p>Other ideas</p> <p>Lego Building</p> <p>Crazy Characters</p> <p>Head, Shoulder, Knees and Toes</p>

<p>- Select a digital device to fulfil a specific task, e.g. to take a photo.</p>	<p>http://code-it.co.uk/wp-content/uploads/2015/05/supermarketplan.pdf</p> <p>http://www.crickweb.co.uk/Early-Years.html</p> <p>https://www.nurseryworld.co.uk/News/article/ict-in-role-play-check-it-out</p>		<p>https://musiclab.chromeexperiments.com/Voice-Spinner/</p>	<p>source/at-home/pizza_party_activity.pdf?sfvrsn=154d91ea_2</p>		
---	--	--	--	--	--	--

<p>KS1</p>	<p>NC Objectives</p>
------------	----------------------

<p>Computing IT Digital Literacy</p>	<p>Pupils should be taught to:</p> <ul style="list-style-type: none"> understand what algorithms are, how they are implemented as programs on digital devices, and that programs execute by following precise and unambiguous instruction create and debug simple programs use logical reasoning to predict the behaviour of simple program use technology purposefully to create, organise, store, manipulate and retrieve digital content recognise common uses of information technology beyond school use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies. 					
<p>Yr 1 and 2 Cycle A 22-23</p>	<p>Technology Around Us (Y1)</p> <p>Logging on</p> <p>https://teachcomputing.org/curriculum/key-stage-1/computing-systems-and-networks-technology-around-us</p> <p>https://www.abcya.com/games/find_the_tech</p> <p>Hello Ruby</p>	<p>Digital Painting (Y1)</p> <p>https://teachcomputing.org/curriculum/key-stage-1/creating-media-digital-painting</p> <p>https://www.j2e.com/jit5 Y1)</p> <p>https://www.tate.org.uk/kids/games-quizzes/tate-paint</p>	<p>Moving a robot (Y1) (Cross curricular with Beebots)</p> <p>https://www.bbc.co.uk/bitesize/topics/z3tbwmn/articles/z3whpv4</p> <p>https://teachcomputing.org/curriculum/key-stage-1/programming-a-moving-a-robot</p> <p>Plus Lesson 1, 2 and 3</p> <p>https://teachcomputing.org/curriculum/key-stage-1/programming-a-moving-a-robot</p>	<p>Book Creator(Linked to topic)</p> <p>https://www.commonsense.org/education/lesson-plans/using-technology-to-enhance-an-all-about-me-book#1</p> <p>https://www.commonsense.org/education/lesson-plans/creating-nonfiction-books-about-animals-in-book-creator</p>	<p>Introduction to Animation (Y1)</p> <p>https://teachcomputing.org/curriculum/key-stage-1/programming-b-introduction-to-animation</p> <p>Scratch Jr Barefoot Computing Scratch Jr https://www.barefootcomputing.org/resources/scratchjr-tinkering-activity</p> <p>Scratch Jr Knock Knock</p>	<p>Pictograms (Y2)(Cross Curricular)</p> <p>https://teachcomputing.org/curriculum/key-stage-1/data-and-information-pictograms</p> <p>https://www.ilearn2.co.uk/free--year-2-data-handling.html</p> <p>https://toytheater.com/category/m</p>

	<p>keyboard https://www.helloruby.com/play/12</p> <p>Paper computer http://www.helloruby.com/play/29</p>	<p>Tuxpaint.org (Y2)</p>	<p>um/key-stage-1/programming-a-robot-algorithms</p> <p>Barefoot Computing https://www.barefootcomputing.org/resources/bee-bots-basics-activity</p> <p>Apps https://apps.apple.com/gb/app/bee-bot/id500131639</p> <p>Web https://beebot.terrainlogo.com/</p>	<p>Digital Writing (Y1) (Cross curricular)</p> <p>https://teachcomputing.org/curriculum/key-stage-1/creating-media-digital-writing</p> <p>Web- https://www.i2e.com/jit5</p> <p>Project Evolve https://projectevolve.co.uk/toolkit/resources/years/year-one/copyright-and-ownership/</p>	<p>https://www.barefootcomputing.org/resources/scratchjr-knock-knock-joke-activity</p> <p>An introduction to quizzes(Y2)</p> <p>https://teachcomputing.org/curriculum/key-stage-1/programming-b-an-introduction-to-quizzes</p>	<p>ath-games/graphing/</p>
<p>Project Evolve Year 1/2 units</p>						

<p>Yr 1 and 2 Cycle B 23-24</p>	<p>IT Around Us (Y2)</p> <p>Logging on</p> <p>https://www.abcya.com/games/find_the_tech</p> <p>https://teachcomputing.org/curriculum/key-stage-1/computing-systems-and-networks-it-around-us</p> <p>or</p> <p>PM- Unit 1.9 Technology Outside School</p>	<p>Making Music (Y2)</p> <p>https://teachcomputing.org/curriculum/key-stage-1/creating-media-making-music</p> <p>https://www.ilearn2.co.uk/freeyear1musiccreation.html</p> <p>Song Maker</p> <p>Incredibox</p> <p>http://www.isleoftune.com/</p>	<p>Moving a robot (Y1) (Cross curricular and ideally with an alternative to Beebots such as ozobots, Clementoni Mind robots or Rugged robots)</p> <p>https://teachcomputing.org/curriculum/key-stage-1/programming-a-moving-a-robot</p> <p>Plus Lesson 1, 2 and 3</p> <p>https://teachcomputing.org/curriculum/key-stage-1/programming-a-robot-algorithms</p> <p>Apps A.I.E.X</p>	<p>Book Creator(Linked to topic)</p> <p>https://www.commonsense.org/education/lesson-plans/using-technology-to-enhance-an-all-about-me-book#1</p> <p>https://www.commonsense.org/education/lesson-plans/creating-nonfiction-books-about-animals-in-book-creator</p> <p>Focus on</p> <p>Digital Photographs (Y2) (Cross curricular)</p> <p>https://teachcomputing.org/curriculum/key-stage-1/creating-media-digital-photography</p>	<p>Programming</p> <p>Dance Unplugged</p> <p>-</p> <p>https://curriculum.code.org/hoc/unplugged/4/</p> <p>Dance Unplugged</p> <p>-</p> <p>https://www.barefootcomputing.org/resources/dance-move-algorithms</p> <p>and</p> <p>Computational Thinking -</p> <p>https://www.barefootcomputing.org/resources/decomposition-unplugged-activity-ks1</p>	<p>Pictograms (Y2)(Cross Curricular)</p> <p>https://teachcomputing.org/curriculum/key-stage-1/data-and-information-pictograms</p>
--	--	--	---	---	--	--

				Digital Writing (Y1) (Cross curricular) https://teachcomputing.org/curriculum/key-stage-1/creating-media-digital-writing Web: https://www.i2e.com/jit5		
Project Evolve Year 1/2 units						
KS2	NC Objectives					
Computing IT Digital Literacy	Pupils should be taught to: <ul style="list-style-type: none"> design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts use sequence, selection, and repetition in programs; work with variables and various forms of input and out use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs understand computer networks, including the internet; how they can provide multiple services, such as the World Wide Web, and the opportunities they offer for communication and collaboration 					

	<ul style="list-style-type: none"> • use search technologies effectively, appreciate how results are selected and ranked, and 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 • use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact 					
<p>Yr 3/4 Cycle A 22-23</p> <p>Sheffield http://sheffielddcl.net/sheffield-primary-computing-framework/</p>	<p>(Creating media-Branching database (Cross curricular))</p> <p>https://teachcomputing.org/curriculum/key-stage-2/data-and-information-branching-databases</p> <p>Jit5</p> <p>Picollage app</p>	<p>Programming-Sequence in music (Y3)</p> <p>https://teachcomputing.org/curriculum/key-stage-2/programming-a-sequence-in-music</p> <p>Start with some tutorials https://scratch.mit.edu/projects/editor/?tutorial=getStarted</p> <p>Y4 Include a repeat or forever block or try the below tutorial</p> <p>https://projects.raspberrypi.org/en/</p>	<p>Creating media-desktop publishing Adobe Creative Express/ Canva (Cross curricular)(Y3)</p> <p>https://teachcomputing.org/curriculum/key-stage-2/creating-media-desktop-publishing</p>	<p>Programming-events and actions(Y3)</p> <p>https://teachcomputing.org/curriculum/key-stage-2/programming-events-and-actions</p> <p>https://studio.code.org/s/coursec-2020/stage/15/puzzle/1</p> <p>Y4 Include a repeat or forever block</p>	<p>Creating media- photo editing (Cross curricular)(Y4)</p> <p>https://teachcomputing.org/curriculum/key-stage-2/creating-media-photo-editing</p> <p>https://pixlr.com/x/</p>	<p>Creating media-stop-frame animation (Cross curricular)(Y3)</p> <p>https://teachcomputing.org/curriculum/key-stage-2/creating-media-animation</p>

		n/projects/butterfly-garden				
<u>Project Evolve Year 3/4 units</u>						
Yr 3/4 Cycle B 23-23	Systems and networks- The internet (Y4) https://teachcomputing.org/curriculum/key-stage-2/computing-systems-and-networks-the-internet http://code-it.co.uk/netintsearch	Programming- Repetition All do a tutorial(Y3-Animate a name. Y4 any) https://scratch.mit.edu/projects/editor/?tutorial=getStarted https://teachcomputing.org/curriculum/key-stage-2/programming-b-repetition-in-games	Creating media- desktop publishing Canva (Cross curricular) https://teachcomputing.org/curriculum/key-stage-2/creating-media-desktop-publishing Y4 skills Mr P ICT progression of skills	Programming- Repetition https://teachcomputing.org/curriculum/key-stage-2/programming-a-repetition-in-shapes	Creating media-Audio editing (Cross curricular) https://teachcomputing.org/curriculum/key-stage-2/creating-media-audio-editing Using Garage Band or BandLab	Creating media- Comic Creation (Cross curricular) https://www.ilearn2.co.uk/comiccreation/eachfree.html https://www.makebeliefscomix.com/Comix/

<u>Project Evolve Year 3/4 units</u>						
Yr 5 and 6 Cycle A 22-23	Selection in quizzes(Y5) https://teachcomputing.org/curriculum/key-stage-2/programming-b-selection-in-quizzes	Creating media-Vector drawing (Y5) https://teachcomputing.org/curriculum/key-stage-2/creating-	Creating media-video editing (Cross curricular)(Y5) https://teachcomputing.org/curriculum/key-stage-2/creating-media-	Creating media-3D Modelling (Cross curricular)(Y6) https://teachcomputing.org/curriculum/key-stage-	Selection using Recap selection All Y5 https://projects.raspberrypi.org/e	Data and information-Spreadsheets (Y6) https://teachcomputing.org/curriculum/key-stage-2/data-and-

	https://projects.raspberrypi.org/en/projects/dodgeball	media-vector-drawing	video-editing	2/creating-media-3d-modelling	n/projects/dodgeball http://sheffieldcic.net/scratch-selection/ Y6 {Score} https://projects.raspberrypi.org/en/projects/ghostbusters http://sheffieldcic.net/scratch-variables/ Design own game	information-spreadsheets
--	---	--------------------------------------	-------------------------------	---	--	--

Project Evolve Year 5/6 units

<p>Yr 5 and 6 Cycle B 23-24</p>	<p>Programming- Selection (Y5)</p> <p>https://teachcomputing.org/curriculum/key-stage-2/programming-b-selection-in-quizzes</p> <p>and Variables(Y6)</p> <p>https://teachcomputing.org/curriculum/key-stage-2/programming-a-variables-in-games</p>	<p>Creating media-Flat file databases(Y5)</p> <p>https://teachcomputing.org/curriculum/key-stage-2/data-and-information-flat-file-databases</p> <p>https://www.canyoucompute.co.uk/uploads/1/4/2/4/14249012/1_top_trumps_hw.pdf</p>	<p>Creating media- Web page design (Cross curricular)(Y6)</p> <p>https://teachcomputing.org/curriculum/key-stage-2/creating-media-web-page-creation</p>	<p>Systems and networks- Communication (Y5) (Cross curricular) Word/Google Docs</p> <p>https://teachcomputing.org/curriculum/key-stage-2/computing-systems-and-networks-sharing-information (Lessons 4, 5 and 6)</p> <p>Project evolve</p> <p>https://projectevolve.co.uk/toolkit/resources/years/5/managing-online-information/</p>	<p>Creating media-Vector drawing (Y5)</p> <p>https://teachcomputing.org/curriculum/key-stage-2/creating-media-vector-drawing</p>	<p>App design</p> <p>https://www.ilearn2.co.uk/appdesignfree.html/</p>
--	---	--	---	---	---	---

Project Evolve Year 5/6 units

