Sandon Frimary Academy - Computing. Tear 2					
Curriculum Definition: Where we improve our knowledge and understanding of technology in a safe way.					
Autumn Term	Spring Term	Summer Term			
Computer Science: Programming Exploring what 'blocks' do, using the app 'ScratchJr,' by carrying out an informative cycle of predict > test > review. Programming a familiar story and an animation of an animal, children make their own musical instrument by creating buttons and recording sounds as well as following an algorithm to record a joke.	Computer Science: Computer Systems and Networks Learning about word processing and how to stay safe online as well developing touch-typing skills. Introducing important keyboard shortcuts, as well as simple editing tools within a word processor including: bold, italics, underline and font colour as well as how to import images.	Information Technology: Creating Media Storyboarding and simple animation creation using either tablet devices or devices with cameras.			
Key Objectives:	Key Objectives:	Key Objectives:			
Lesson 1: Online Safety: Health and Wellbeing I can say how those rules / guides can help anyone accessing online technologies Lesson 2: To Explore a New Application: Using Scratch Jr I know that ScratchJr is a coding application I can predict what I think something new will do I can explore something independently I can explain what I found using ScratchJr Lesson 3: To Create an Animation: Creating an Animation I can use the programming blocks I've learned about for a purpose I can recognise a loop in programming I can use my programming skills creatively to represent an animal moving using code Lesson 4:To Use Characters as Buttons: Making a Musical Instrument I can design a musical instrument I can select appropriate blocks for my purpose Lesson 5: To Follow an Algorithm: Programming a Joke I can use an algorithm to help me with my programming I can explain what each block in the program does Lesson 6: To Plan and Use Code to Create an Algorithm: Three Little Pigs Algorithm I can use an algorithm to write a computer program	Lesson 1: Online Safety: Online Bullying I can explain what bullying is, how people may bully others and how bullying can make someone feel. Lesson 2: To Begin to Learn to Touch Type: Getting to know the Keyboard I can find keys on a computer keyboard I can identify the home keys on a computer I understand how to type capital letters using 'shift' Lesson 3: To Understand How to Use a Word Processor: Getting started with Word Processing I can type a sentence into a word processor I can select all of the text and make it bold or italics I can explain how to make other changes using a word processor Lesson 4: To Create a Poetry Nook Using Resources From the Internet: Poetry Book I understand how to use text styles to create headings and subtitles I can copy and paste text into a document I understand the importance of crediting source materials Lesson 5: To Understand How to Add Images to a Text Document: Newspaper Writer – Adding an Image (Part 1) I can search for an appropriate image. I can import an image in a document. I can alter an image in a document. Lesson 6: Too Understand How to Type and Format Text: To Newspaper Writer (Part 2) I can use keyboard shortcuts to alter text I can type a sentence into a word processor	Lesson 1: Online Safety: Online Reputation lesson 2: To Understand What Animation Is: What is Animation? lunderstand and explain what animation means lunderstand how to create a short animation using a flip book lean talk about how animation began Lesson 3: To Understand What Stop Motion Is: What is Stop Motion? lunderstand how to create a short animation using animation software lunderstand how to create a short animation using animation software lunderstand what 'onion skinning' is and how animators use it lean use onion skinning to make small changes to my object to make my animation smooth Lesson 4: To Create a Stop Motion Animation: My First Animation lunderstand how to create a short animation using Stop Motion Studio lean use onion skinning to make small changes to my object to make my animation smoother Lesson 5: To Plan my Stop Motion Animation: Planning my Project lean work collaboratively with others to plan an animation lean think carefully about keeping my idea simple and easy to animate lean decompose my story into smaller parts Lesson 6: To Create my Stop Motion Animation: Creating my Project lean use my planning sheet to structure my animation lean work collaboratively lean work collaboratively			
 Key Vocabulary: Algorithm – clear instructions to carry out a task Animation – pictures/photographs in a sequence to give the illusion of movement. Bug – an error or mistake in computer code Code (computer) – a set of instructions written in programming language that tell a computer what to do Code (verb) – to write in programming language Debug – to fix the error in code Icon – a small image which represents something/someone Imitate – copy Instructions – a list of command and directions on how to do something Loop – a repeated sequence of instructions Repeat – to do the same again Scratch JR – a block-based coding application. Sequence – a set order/pattern for something to follow 	 Key Vocabulary: Backspace – a key to move the cursor backwards Copyright – the law that protects other people's work from being copied or used without permission Delete (text) – a button on the keyboard which deletes text Image – a picture Import – to place another pile into a document Keyboard – an input device made up of button that creates letters, numbers and symbols as well as perform other functions Keyboard Character – any letter, symbols, space, number or punctuation mark that can be input with a keyboard Paste (text) – to insert copies or cut text Redo – to step forwards to the next edit Space bar – a button on a keyboard to insert room between letters Touch typing – using a keyboard will all your fingers, without looking at the keyboard Undo – to step backward to the precious edit Word processing – a program used for creating text documents of a computer	 Key Vocabulary: Animation – pictures in a sequence to give the illusion of movement Animator – someone who specialists in creating animations Contraption – old-fashioned device Decompose – to break something down into smaller chunks Design – to make, draw or write plans for something Device – equipment created for a purpose/job Download – saving files from the internet. Film review – writing your opinion about a film Filming – using a video recorder to capture moving images Import Image – place a picture into a document Plan – an idea about how to do something Sketch – rough drawing to help you plan Software – series of instructions written for a computer to follow Stop Motion – sequence of images used to create an animation Storyboard – sequence of sketches that show what you plan to make for an animation/video Upload – send files from one device to another. 			
Resources (IT): Online Safety: https://projectevolve.co.uk/sign-in/ Username: lcolclough@sandonprimary.org.uk Password: Sandon123456! (Lesson 1)	Resources (IT): Online Safety: https://projectevolve.co.uk/sign-in/Username: lcolclough@sandonprimary.org.uk Password: Sandon123456! (Lesson 1)	Resources (IT): Online Safety: https://projectevolve.co.uk/sign-in/Username: lcolclough@sandonprimary.org.uk Password: Sandon123456! (Lesson 1)			

Cross-Curricular Links:

Autumn: Literacy: Instructions / Retell Story

: Speaking/Listening

Maths: Position and Direction

Music: Instruments

Spring: Literacy: Newspaper Report

: Poetry

Summer: Literacy: Story Sequencing

DT: Planning/Designing

Enrichment:

Autumn: Creating a virtual 'joke book'.

Spring: Creating a class poetry book which will be used during whole-class reading.

Summer: Showcasing Animations using QR codes.

Key Computing Skills which can be revisited throughout other Subject Areas:

- Information Technology: logging in and out, using a mouse/mouse pad, developing typing skills and use of copy and paste.
- Digital Literacy: e-safety, collaboration, creativity, critical thinking and evaluation, functional skills.

Online Safety:

Autumn: Health and Wellbeing

Spring: Online Bullying

Summer: Online Reputation

Key Computing Days:

- National Coding Week September
- Safer Internet Day February

iPads – Scratch Jr App (Lesson 2-6)	Laptop – Microsoft Word (Lesson 2-6)	iPads (Lesson 2-3, 6)	
	Website: https://www.typingclub.com/sportal/program-3.game	https://www.j2e.com/jit5#animate (Lesson 2)	
	(Lesson 2-6)	Stop Motion Studio App (Lesson 4, 6)	
	Website: https://poetry4kids.com/ (Lesson 4)		
	Website: https://www.bbc.co.uk/newsround (Lesson 5/6)		

National Curriculum: By the end of KS1, pupils will be able to:

- Understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions
- Create and debug simple programs
- Use logical reasoning to predict the behaviour of simple programs
- 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.