Computing Curriculum Map KS

Class:		Coral		Year Group:	4
Autumn 1	**Autumn 2**	**Spring 1**	**Spring 2**	**Summer 1**	**Summer 2**

Computer Science (Programming)
(beebots, lgfl, espresso coding, scratch)

NC Objectives
-Solve problems by decomposing them into smaller parts
-Use logical reasoning to explain how some simple algorithms work
-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 and Work with various forms of input and output

Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Getting Started with Scratch	We are programmers (Year 3 Unit)	Scratch Computing (Year 3 Unit) Drawing with edits	Scratch Computing (Year 4 Unit) Animations Virtual Tour	Espresso coding	Espresso Coding

ICT Multi-Media and Word Processing
(Cross Curricular)

NC Objectives
-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

Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
The Romans in London LGFL	Virtual Experiments (Science, Electricity)	Virtual Experiments (Science, Electricity)			

ICT Digital Media
(graphics, video, music, sound)

NC Objectives
-Use technology to purposefully create, organise, store, manipulate and retrieve digital content

Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
	Perform a Poem/imovie/Audio network		Perform a Poem/imovie/ Audio network		Perform a Poem/imovie/ Audio network

ICT Communication & Collaboration
(online publishing, blogs, internet research)

NC Objectives
-Recognise common uses of information technology beyond school
-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 and Appreciate how search results are selected and ranked

Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topic Research (Ongoing) Blog Website (Ongoing)	Topic Research (Ongoing) Blog Website (Ongoing)	Topic Research (Ongoing) Blog Website (Ongoing)	Topic Research (Ongoing) Blog Website (Ongoing)	Topic Research (Ongoing) Blog Website (Ongoing)	Topic Research (Ongoing) Blog Website (Ongoing)

ICT Data
(graphs, databases, data loggers)

NC objectives
-Basic skills – opening, saving and managing files…

Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
	Maths Link J2E/Excel				Maths Link J2E/Excel

Digital Literacy and E-Safety
(online research, incl networks and internet, e-awareness, communication & collaboration)

NC objectives
-Use technology safely, respectfully and responsibly
-Recognise acceptable / unacceptable behaviour
-Identify a range of ways to report concerns about content and contact
-Basic skills – Keyboard skills

Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
E-Safety Acceptable User Policy – Signed LGFL (Us online)	Online Privacy	Messaging Safer Internet Day (10th Feb)	Safe Surfing	Gaming	Cyberbullying