Skelton Primary School
Computing Overview

Computing scheme is taken from Kapow Primary.
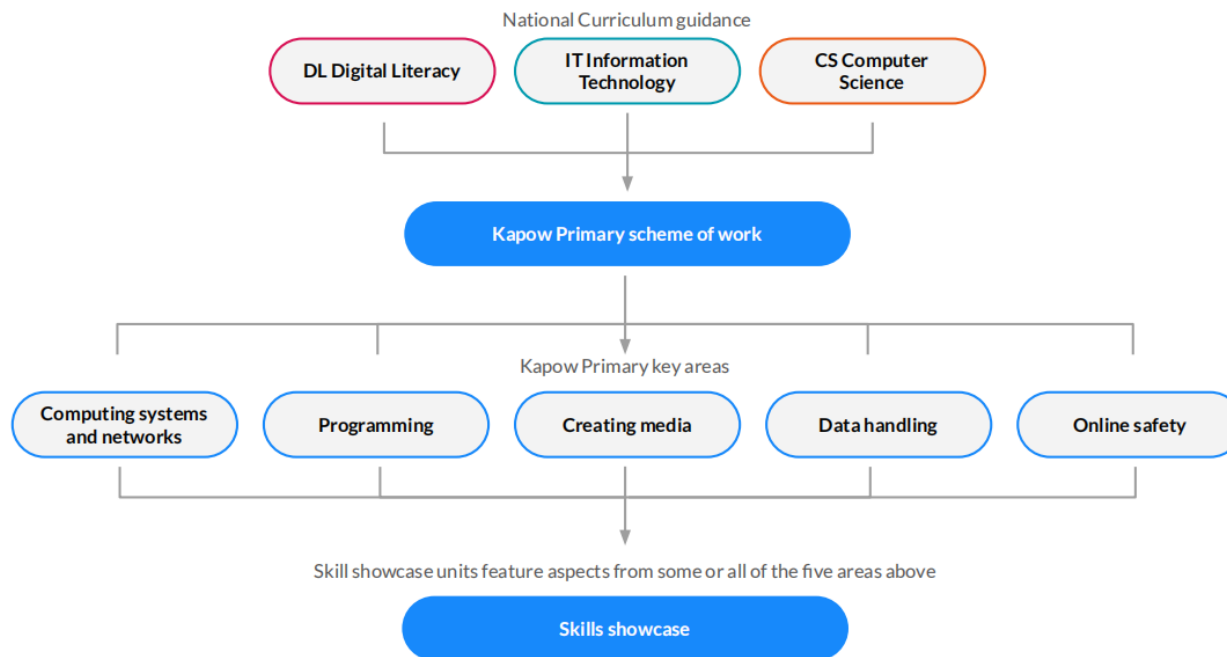https://www.kapowprimary.com/subjects/computing/

Kapow Primary's Computing scheme of work has been designed as a spiral curriculum with the following key principles in mind:
Cyclical: Pupils revisit the five key areas throughout KS1 and KS2.
Increasing depth: Each time a key area is revisited, it is covered with greater complexity.
Prior knowledge: Upon returning to each key area, prior knowledge is utilised so pupils can build on previous foundations, rather than starting again.

How is the Computing scheme of work organised?

National Curriculum guidance

| DL Digital Literacy | IT Information Technology | CS Computer Science |

Kapow Primary scheme of work

Kapow Primary key areas

| Computing systems and networks | Programming | Creating media | Data handling | Online safety |

Skill showcase units feature aspects from some or all of the five areas above

Skills showcase

Key areas

We have categorised our lessons into the five key areas below, which we return to in each year group making it clear to see prior and future learning for your pupils and how what you are teaching fits into their wider learning journey.

Computing systems and networks	Programming	Creating media	Data handling	Online safety
Identifying hardware and using software, while exploring how computers communicate and connect to one another.	Understanding that a computer operates on algorithms, and learning how to write, adapt and debug code to instruct a computer to perform set tasks.	Learning how to use various devices — record, capture and edit content such as videos, music, pictures and photographs.	Ensuring that information is collected, recorded, stored, presented and analysed in a manner that is useful and can help to solve problems.	Understanding the benefits and risks of being online — how to remain safe, keep personal information secure and recognising when to seek help in difficult situations.

Skills showcase units

There are four units entitled Skills showcase. These units give children the chance to combine and apply skills and knowledge gained, from a range of the five key areas above, to produce a specific outcome.

Y1 - Rocket to the moon

Y4 - HTML

Y5 - Mars Rover 2

Y6 - Inventing a product

Year group	Autumn			Spring			Summer		
EYFS	**All about instructions** Key Area: programming 1	**All about instructions** Key Area: programming 1	**Exploring Hardware** Key Area: computing systems and networks	**Exploring Hardware** Key Area: programming 2	**Programming Bee-Bots** Key Area: programming 2	**Introduction to data** Key Area: data handling
	Using a computer Computing systems and networks					
KS1	**Improving mouse skills** Key Area: Computing systems and networks Year group: 1	**Algorithms unplugged** Key Area: Programming Year group: 1	**Rocket to the moon** Key Area: Skills showcase Year group: 1	**What is a computer?** Key Area: Computing systems and networks Year group: 2	**Algorithms and debugging** Key Area: Programming Year group: 2	**Word processing** Key Area: Computing systems and networks Year group: 2
	Year 1: online safety Using the internet safely/Online emotions			Year 2: online safety What happens when I post online?/How do I keep my things safe online?/Who should I ask?		
LKS2	**E mailing** Key Area: Computing systems and networks Year group: 3	**Programming: Scratch** Key Area: Programming Year group: 3	**Video trailers** Key Area: Creating media Year group: 3	**Website design** Key Area: Creating media Year group: 4	**Further coding with Scratch** Key Area: Programming Year group: 4	**Computational thinking** Key Area: Programming Year group: 4
	Year 3: online safety Beliefs, opinions and facts on the internet/When being online makes me upset			Year 4: online safety What is a bot?/What is my #TechTimetable like?		
UKS2	**Micro:bit** Key Area: Programming Year group: 5	**Mars Rover 1** Key Area: Data handling Year group: 5	**Mars Rover 2** Key Area: Skills showcase Year group: 5	**History of computers** Key Area: Creating media Year group: 6	**Bletchley Park** Key Area: Computing systems and networks Year group: 6	**Inventing a product** Key Area: Skills showcase Year group: 6
	Year 5: online safety Online protection/Online communication/Online reputation			Year 6: online safety Life online/Sharing online/Creating a positive reputation		

Cycle B: 2023 - 24/ 2025 - 2026

Year group	Autumn			Spring		Summer
EYFS	**All about instructions** Key Area: programming 1	**All about instructions** Key Area: programming 1	**Exploring Hardware** Key Area: computing systems and networks	**Exploring Hardware** Key Area: computing systems and networks	**Programming Bee-Bots** Key Area: programming 2	**Introduction to data** Key Area: data handling
	Using a computer Computing systems and networks					
KS1	**Bee-bots** Key Area: Programming Year group: 1	**Digital imagery** Key Area: Media Year group: 1	**Introduction to data** Key Area: Data Handling Year group: 1	**Scratch Jr Programming** Key Area: Programming Year group: 2	**Stop-motion Media** Key Area: Media Year group: 2	**International space Station** Key Area: Data Handling Year group: 2
	Year 1: online safety Always be kind and considerate/Posting and sharing online			Year 2: online safety It's my choice/Is it true?		
LKS2	**Google: Emailing** Key Area: Systems and networks Year group: 3	**Comparison cards** Key Area: Data handling Year group: 3	**Journey inside a computer** Key Area: Systems and networks Year group: 3	**Collaborative Learning** Key Area: Systems and networks Year group: 4	**Investigating weather** Key Area: Data handling Year group: 4	**HTML - Building a webpage** Key Area: Skills showcase Year group: 4
	Year 3: online safety Sharing of information/Rules of social media platforms			Year 4: online safety What happens when I search online?/ How do companies encourage us to buy online?/Fact, opinion or belief?		
UKS2	**Programming:Music** Key Area: Programming Year group: 5	**Stop motion Animation** Key Area: Media Year group: 5	**Search engines** Key Area: Systems and Networks Year group: 5	**Big data 1** Key Area: Data handling Year group: 6	**Big data 2** Key Area: Data handling Year group: 6	**Introduction To Python** Key Area: Programming Year group: 6
	Year 5: online safety Online bullying/Online health			Year 6: online safety Capturing evidence/Password protection/Thinking before you click		