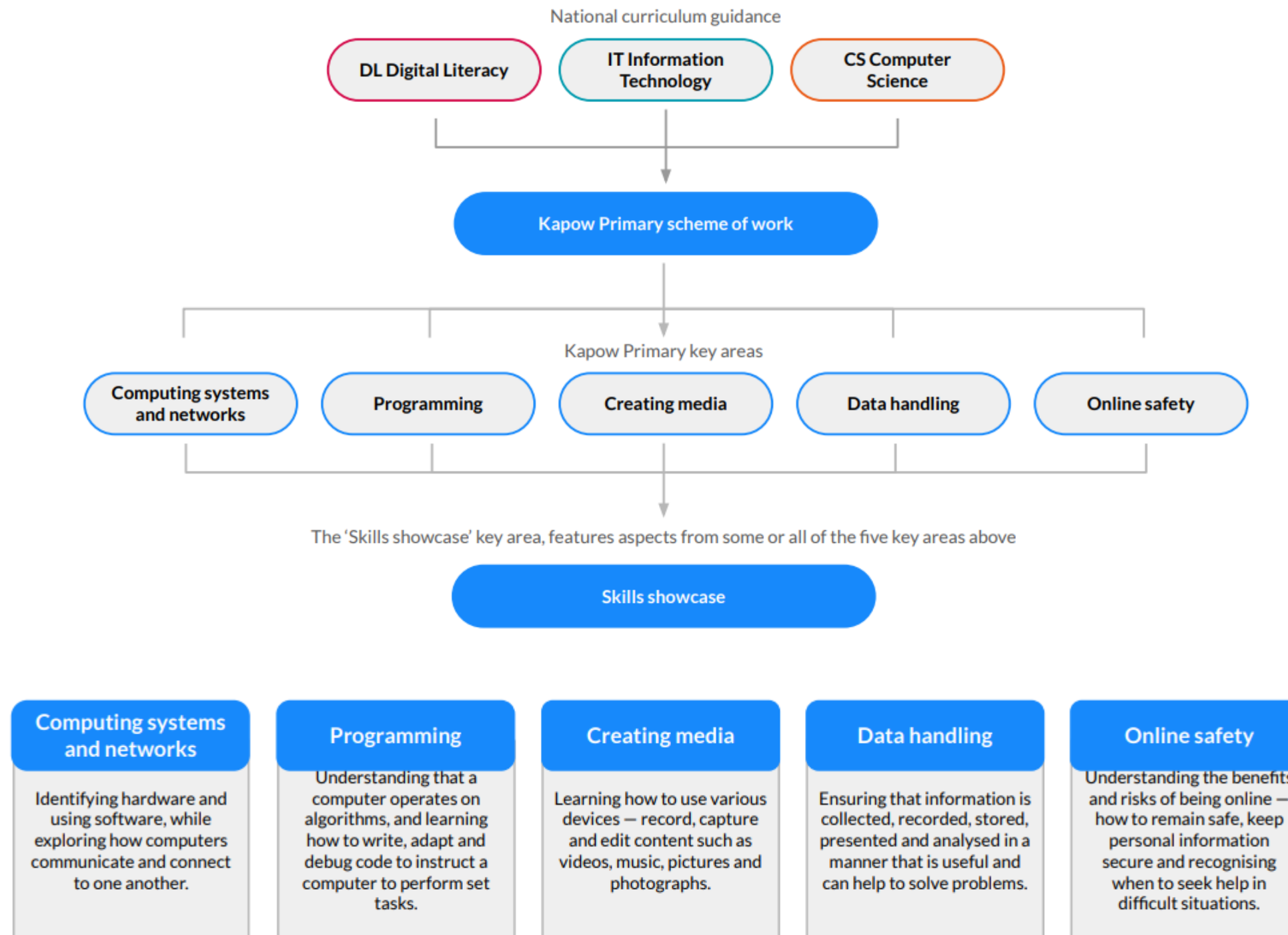# Computing

Computing at Newtown Linford is about being secondary ready and able to access a global world. In order to ensure teachers are able to deliver this complex knowledge successfully we use Kapow due to their comprehensive teacher support package.

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

The 'Skills showcase' key area, features aspects from some or all of the five key areas above

Skills showcase

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.

Cycle A

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
EYFS	Set up continuous provision in your classroom:	**Computing systems and networks** **EYFS -** Using a computer	**Programming 1** **EYFS -** All about instructions	**Computing systems and networks** **EYFS -** Exploring hardware	**Programming 2** **EYFS -** Programming Bee-Bots	**Data Handling** **EYFS -** Introduction to data
Key Stage 1	**Computing systems and networks** **Year 1:** Improving Mouse Skills **Online Safety** **Year 1 –** Online Safety	**Programming 1** **Year 1 -** Algorithms Unplugged	**Programming 1** **Year 2 -** Algorithms Unplugged	**Programming 2** **Year 1 –** Bee Bots	**Creating Media** **Year 1 –** Digital Imagery	**Data Handling** **Year 1 –** Introduction to Data
Lower Key Stage 2	**Programming** **Year 4 –** Computational Thinking	**Computing systems and networks** **Year 3 –** Networks and the Internet **Online Safety** **Year 3 –** Online Safety	**Creating Media** **Year 4 –** Video Trailers	**Creating Media** **Year 3 –** Website Design	**Programming** **Year 3-** Programming Scratch	**Programming** **Year 4 -** Further Coding with Scratch
Upper Key Stage 2	**Data Handling** **Year 6 –** Big Data 1	**Computing systems and networks** **Year 5 –** Search Engines **Year 6 –** Online Safety	**Data Handling** **Year 5 –** Mars Rover 1 **Skills Showcase** **Year 5 –** Mars Rover 2	**Data Handling** **Year 6 –** Big Data 2	**Creating Media** **Year 5 –** Stop Motion Animation	**Computer Science** **Year 6 –** Introduction to Python

Cycle B

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
EYFS	Set up continuous provision in your classroom:	**Computing systems and networks** Using a computer	**Programming 1** All about instructions	**Computing systems and networks** Exploring hardware	**Programming 2** Programming Bee-Bots	**Data Handling** Introduction to data
Key Stage 1	**Computing systems and networks 1** **Year 2:** What is a computer? **Online Safety** **Year 2 –** Online Safety	**Data Handling** **Year 1 –** Introduction to Data	**Computing systems and networks 2** **Year 2 –** Word Processing	**Programming 2** **Year 2 –** Programming; ScratchJr	**Creating Media** **Year 2 –** Stop Motion Option 1: Using tablets	**Skills Showcase** **Year 1 –** Rocket to the Moon
Lower Key Stage 2	**Data Handling** **Year 3 -** Comparison cards **Online Safety** **Year 4 –** Online Safety	**Computing Systems and Networks** **Year 4 –** Collaborative Learning	**Computing systems and networks: Emailing** **Year 3 -** Digital Literacy	**Computer Systems: Journey inside a computer** **Year 3 -** Information	**Data Handling** **Year 4 -** Investigating Weather	**Skills showcase** **Year 4 -** HTML
Upper Key Stage 2	**Programming** **Year 5 –** Microbit	**Creating Media** **Year 6 –** History of computing	**Skills Showcase** **Year 6 –** Inventing a product	**Computing systems and networks** **Year 6 –** Bletchley Park	**Online Safety** **Year 6 –** Online safety	**Programming** **Year 5 -** Music