

Implementation: Computing at New Horizons Academy

At the start of each term, we will use Kapow Computing to deliver an online safety lesson. This will then be followed by a different unit from the [Kapow, 'mixed-age' computing scheme](#). Therefore, each term, every class will be accessing an online safety session to ensure that this knowledge and understanding is revisited regularly throughout the year, providing further opportunities to address any area of this learning as well as allowing for pupils to retain knowledge so that they can know more, remember more and do more.

The impact of our Computing curriculum at New Horizons Academy is seen in the development of confident, safe, and digitally literate learners who are prepared for the challenges of a 21st-century world. By tailoring our approach to the unique needs of our students, we ensure that barriers to learning are dismantled, allowing every child to make meaningful progress from their individual starting points.

Key Outcomes for Our Learners

- A Culture of Safety: Due to our spiral curriculum (revisiting online safety every term), students demonstrate a robust understanding of how to stay safe online. They can identify risks, manage their digital footprint, and know exactly how to seek help, resulting in a school community that uses technology respectfully and responsibly.
- Confidence and Digital Agency: Students transition from being passive consumers of technology to active, proficient creators. This is evidenced by their ability to navigate various platforms and tools with independence, reducing digital anxiety and building functional literacy.
- Resilience through Computational Thinking: By engaging with the *Kapow Computing* units, students develop "debugging" mindsets. They learn that errors are a natural part of the learning process, fostering a sense of resilience and problem-solving that extends beyond the computing suite and into their daily lives.
- Preparation for the Future: Our learners gain a practical toolkit of skills—from basic coding to data handling—that bridges the digital divide. This ensures that their personal circumstances do not limit their future aspirations or their ability to compete in a modern workforce.
- Inclusive Progress: Success in Computing is celebrated for all. Through our inclusive delivery, we see high levels of engagement from students who may struggle in traditional subjects, providing them with a medium where they can excel, express their creativity, and feel a sense of accomplishment.

Computing: Supporting Resources

Kapow, 'mixed-age' computing scheme

KS1 Cycle A	<u>Autumn 1</u>	<u>Autumn 2</u>	<u>Spring 1</u>	<u>Spring 2</u>	<u>Summer 1</u>	<u>Summer 2</u>
NHA Science Curriculum	Kapow Online Safety: Year 1 Lesson 1: Using the internet safely & Kapow Computing systems and Networks : Improving mouse skills	Kapow Online Safety: Year 1 Lesson 2: Online emotions & Kapow Programming 1 : Algorithms unplugged	Kapow Online Safety: Year 1 Lesson 3: Always be kind and considerate & Kapow Skills Show showcase : Rocket to the moon	Kapow Online Safety: Year 1 Lesson 4: Posting and sharing online & Kapow Computing systems and networks : What is a computer?	Kapow Online Safety: Year 1 Lesson 5: How much time should we spend on technology? & Kapow Programming 2 : Algorithms and debugging	Online Safety Consolidation and recap lesson- teacher planned What have we learnt this year about staying safe online? & Kapow Computing systems and networks : Word Processing

<u>KS1</u> Cycle B	<u>Autumn 1</u>	<u>Autumn 2</u>	<u>Spring 1</u>	<u>Spring 2</u>	<u>Summer 1</u>	<u>Summer 2</u>
NHA Curriculum	Kapow Online Safety: Year 2 Lesson 1: What happens when I post online? & Kapow Programming 1: Programming Bee-Bots	Kapow Online Safety: Year 2 Lesson 2: How do I keep? & Kapow Creating Media: Digital Imagery	Kapow Online Safety: Year 2 Lesson 3: It's my choice & Kapow Data handling: Introduction to data	Kapow Online Safety: Year 2 Lesson 4: Is it true? & Kapow Programming 2: ScratchJr	Online Safety Consolidation and recap lesson- teacher planned What have we learnt this year about staying safe online? & Kapow Creating Media: Stop Motion	Online Safety Consolidation and recap lesson- teacher planned What have we learnt this year about staying safe online? & Kapow Data Handling: International Space Station

<u>LKS2</u> Cycle A	<u>Autumn 1</u>	<u>Autumn 2</u>	<u>Spring 1</u>	<u>Spring 2</u>	<u>Summer 1</u>	<u>Summer 2</u>
NHA Curriculum	Kapow Online Safety: Year 3 Lesson 1: Beliefs, opinions and facts on the internet & Kapow Computing systems and networks: Emailing	Kapow Online Safety: Year 2 Lesson 2: Who should I ask? & Kapow Programming 1: Scratch	Kapow Online Safety: Year 2 Lesson 3: When being online makes me upset & Kapow Creating Media: Video trailers (Option 1: Using devices other than iPads) (Option 2: Using iPads) (4 lessons:1-4 only)	Kapow Online Safety: Year 2 Lesson 4: Sharing of information & Kapow Computing systems and networks: Website Design	Kapow Online Safety: Year 2 Lesson 5: Rules of social media platforms & Kapow Programming 2: Further Coding with Scratch	Online Safety Consolidation and recap lesson- teacher planned What have we learnt this year about staying safe online? & Kapow Creating Media: Computational thinking

<u>LKS2</u>	<u>Autumn 1</u>	<u>Autumn 2</u>	<u>Spring 1</u>	<u>Spring 2</u>	<u>Summer 1</u>	<u>Summer 2</u>
Cycle B						
NHA Curriculum	Kapow Online Safety: Year 4 Lesson 1: What happens when I search online? & Kapow Computing systems and networks: Networks	Kapow Online Safety: Year 4 Lesson 2: How do companies encourage? & Kapow Data Handling: Comparison cards databases	Kapow Online Safety: Year 4 Lesson 3: Fact, opinion or belief? & Kapow Computing systems and networks: Journey inside a computer	Kapow Online Safety: Year 4 Lesson 4: What is a bot? & Kapow Computer systems and networks: Collaborative learning	Kapow Online Safety: Year 4 Lesson 5: What is my #TechTimetable like? & Kapow Data Handling: Investigating the weather	Online Safety Consolidation and recap lesson- teacher planned What have we learnt this year about staying safe online? & Kapow Computing systems and networks: HTML

<u>UKS2</u> Cycle A	<u>Autumn 1</u>	<u>Autumn 2</u>	<u>Spring 1</u>	<u>Spring 2</u>	<u>Summer 1</u>	<u>Summer 2</u>
NHA Curriculum	Kapow Online Safety: Year 5 Lesson 1: Online Protection & Kapow Programming: Micro:bit	Kapow Online Safety: Year 5 Lesson 2: Online communication & Kapow Data handling : Mars Rover 1	Kapow Online Safety: Year 5 Lesson 3: Online reputation & Kapow Skills showcase : Mars Rover 2	Kapow Online Safety: Year 5 Lesson 4: Online bullying & Kapow Computing systems and networks Y6: Bletchley Park and the history of computers	Kapow Online Safety: Year 5 Lesson 5: Online health & Kapow Programming: AI	Online Safety Consolidation and recap lesson- teacher planned What have we learnt this year about staying safe online? & Kapow Skills showcase: Inventing a product

<u>UKS2</u> Cycle B	<u>Autumn 1</u>	<u>Autumn 2</u>	<u>Spring 1</u>	<u>Spring 2</u>	<u>Summer 1</u>	<u>Summer 2</u>
NHA Curriculum	Kapow Online Safety: Year 6 Lesson 1: Life online & Kapow Programming Y5: Programming: Music	Kapow Online Safety: Year 6 Lesson 2: Sharing online & Kapow Creating media: Stop motion animation	Kapow Online Safety: Year 6 Lesson 3: Creating a positive online reputation & Kapow Computing systems and networks: Search Engines	Kapow Online Safety: Year 6 Lesson 4: Capturing evidence & Kapow Data handling: Big data 1	Kapow Online Safety: Year 6 Lesson 5: Password protection & Kapow Data handling 2: Big Data 2	Kapow Online Safety: Year 6 Lesson 6: Think before you click & Kapow Creating media: Intro to Python

