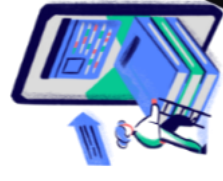


Year 7 Computing Learning Journey

E-Safety Awareness

Cyberbullying, Social media, Strong passwords, digital responsibility

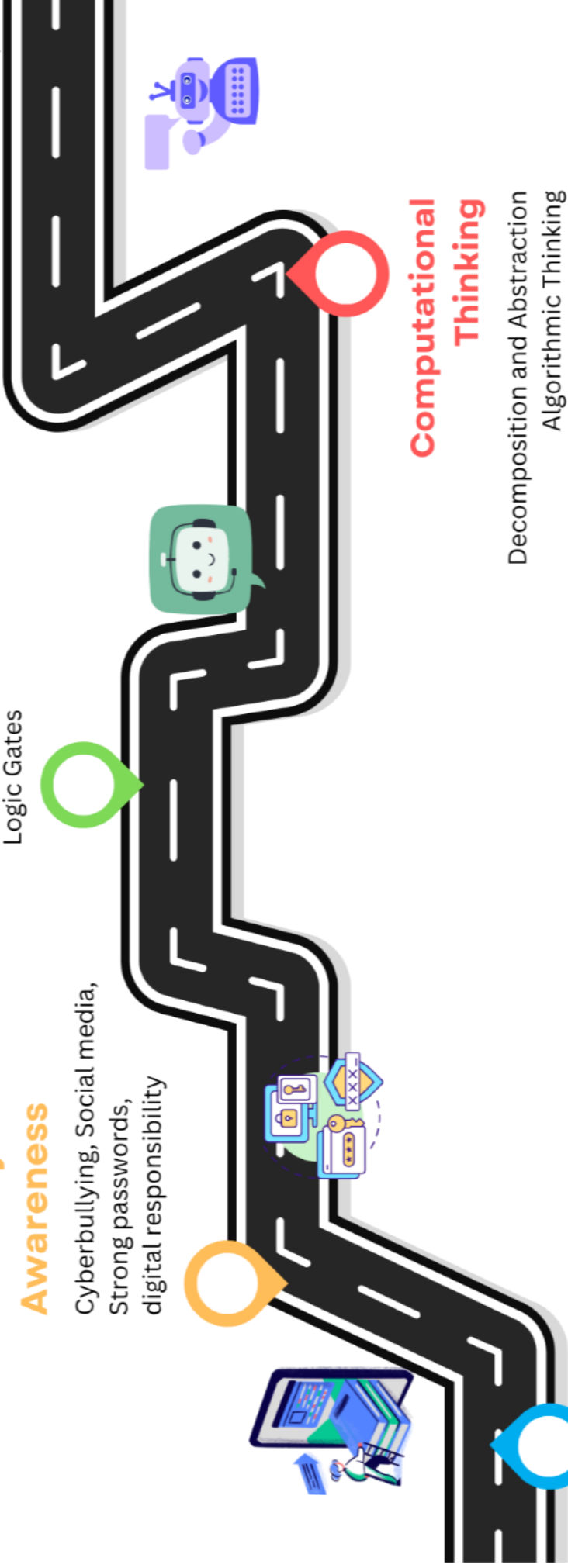


Computer Systems

How computer work, Binary & Binary maths
Hardware and Software
Logic Gates



YEAR 8



Computational Thinking

Decomposition and Abstraction
Algorithmic Thinking
Sequence, Selection
Flowol

Digital Onboarding

Introduction to School IT Systems



KEY VOCABULARY

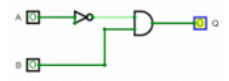
Term One - Safety & Cyber Awareness

- **Password:** A secret word or phrase used to protect access to accounts or devices.
- **Phishing:** A scam where fake emails or messages trick people into giving personal data.
- **Oversharing:** Posting too much personal information online.
- **Malware:** Software designed to damage or disrupt computers.
- **Social Engineering:** Manipulating people into giving up confidential information.



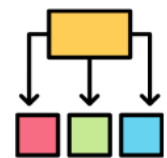
Term Two - Computer Systems

- **CPU:** Central Processing Unit – the brain of the computer that carries out instructions.
- **RAM:** Random Access Memory – temporary memory used while programs are running.
- **Binary:** A number system using only 0s and 1s used by computers.
- **Logic Gate:** A building block of digital circuits that performs a logical operation.
- **Software:** The programs and operating systems used by a computer.



Term Three - Computational Thinking

- **Decomposition:** Breaking down a problem into smaller, more manageable parts.
- **Abstraction:** Removing unnecessary detail to focus on what's important.
- **Algorithm:** A step-by-step set of instructions to solve a problem.
- **Sequence:** Running instructions one after another in order.
- **Selection:** Making a decision using if, then, else logic.



Quick Recap Questions

1. What makes a strong password?
2. What does the CPU do in a computer system?
3. What number system do computers use?
4. What is the difference between sequence and selection?
5. Why is abstraction useful when solving problems?