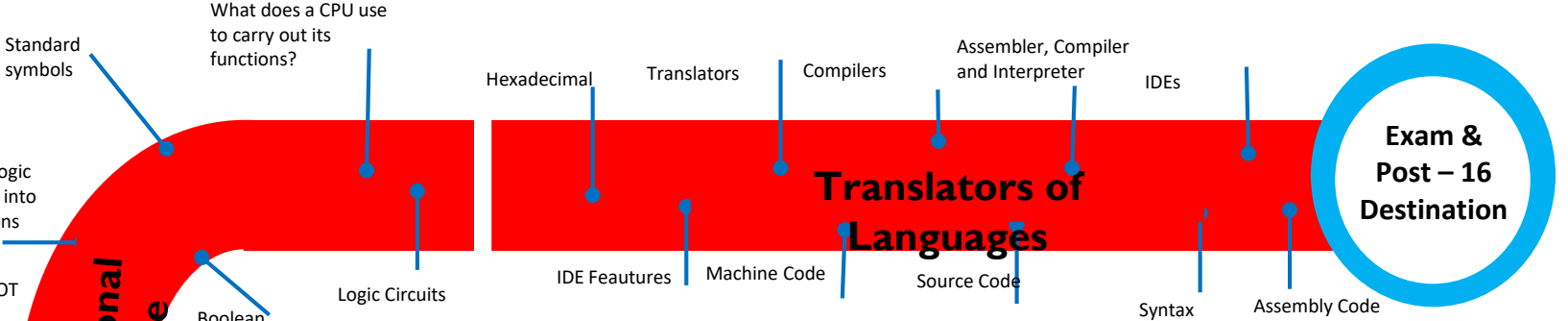


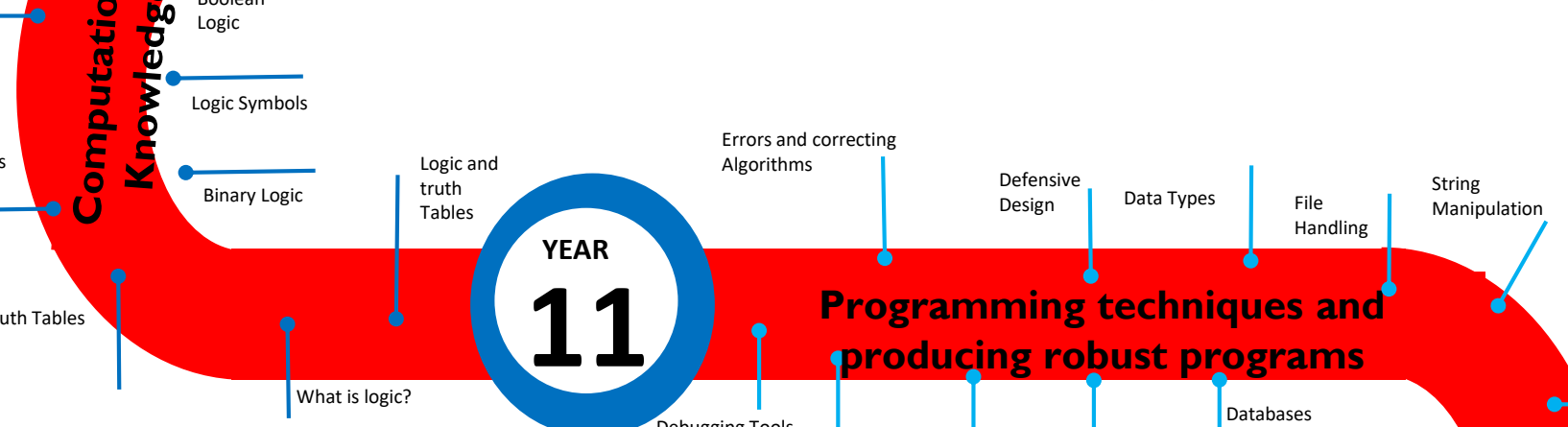
# Computing Learning Journey



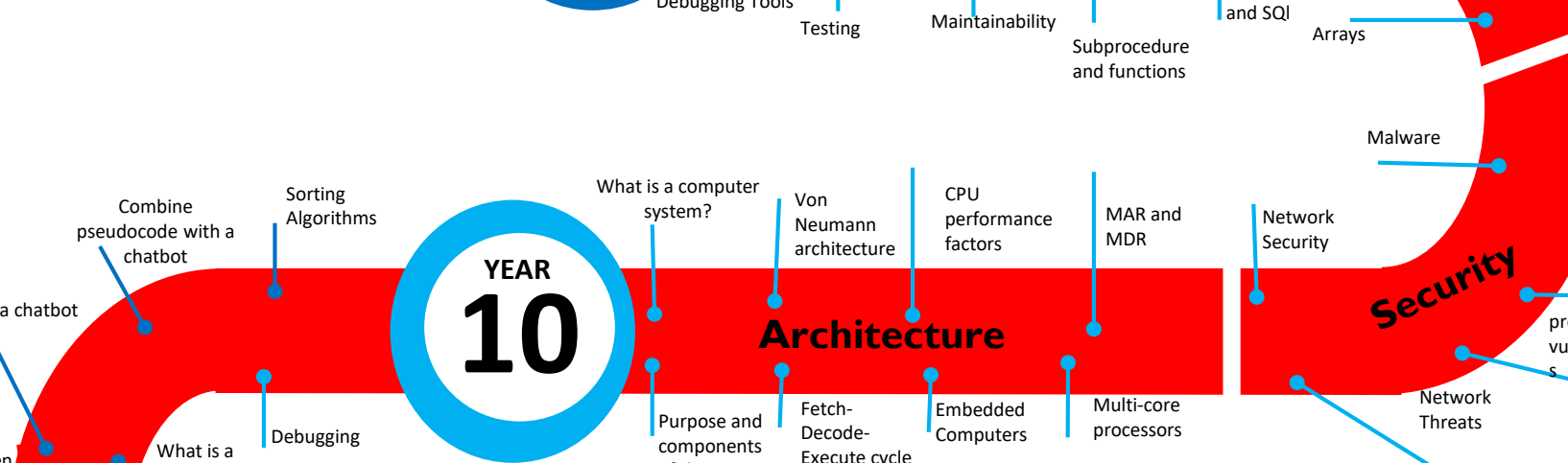
- Understanding online Safety
- Calculating Binary equations
- Drawing flowcharts
- Creating basic coding applications
- Compiling computer hardware
- Compatibility
- Identifying personal online vulnerabilities
- Understanding different types of networks in an environment
- Differentiation between vulnerable and non vulnerable networks
- Coding efficient programs with security
- Using computational knowledge when coding or taking on different tasks
- Debugging code
- Applies fundamentally learnt tools to complete tasks i.e pseudocode and flowcharts



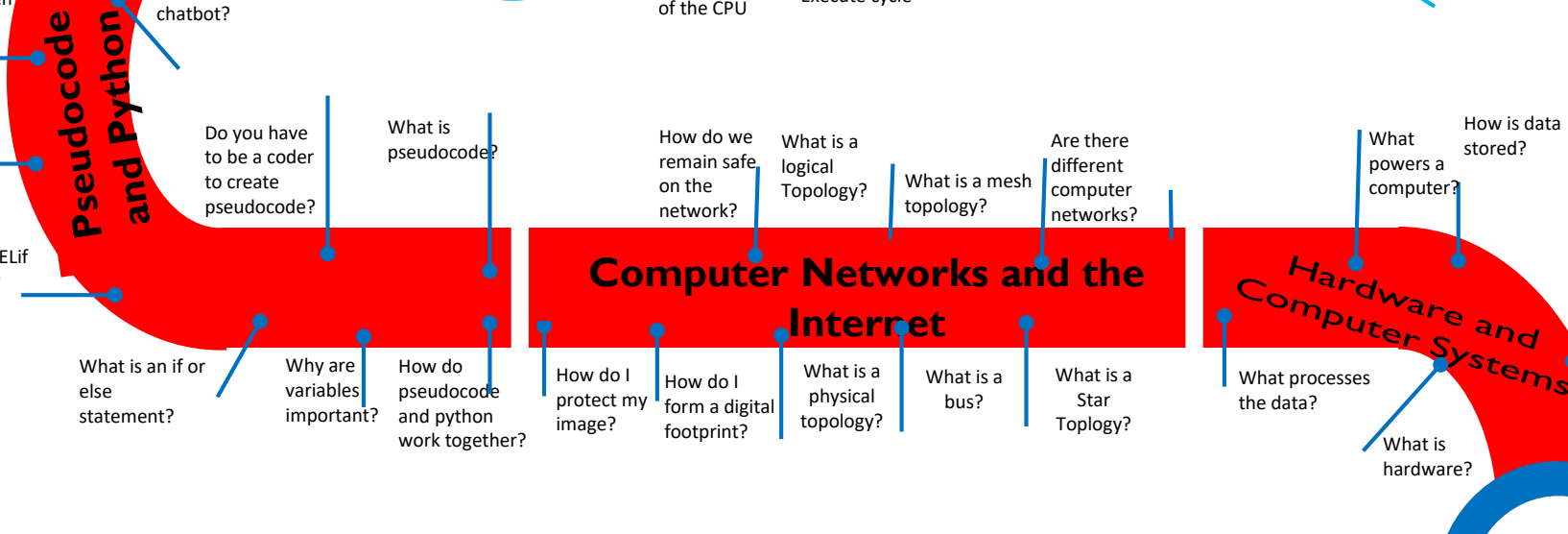
- Standard symbols
- Convert logic diagrams into expressions
- AND/OR/NOT
- Logic Gates
- Truth Tables
- What does a CPU use to carry out its functions?
- Hexadecimal
- Translators
- Compilers
- Assembler, Compiler and Interpreter
- IDEs
- Logic Circuits
- IDE Features
- Machine Code
- Source Code
- Syntax
- Assembly Code



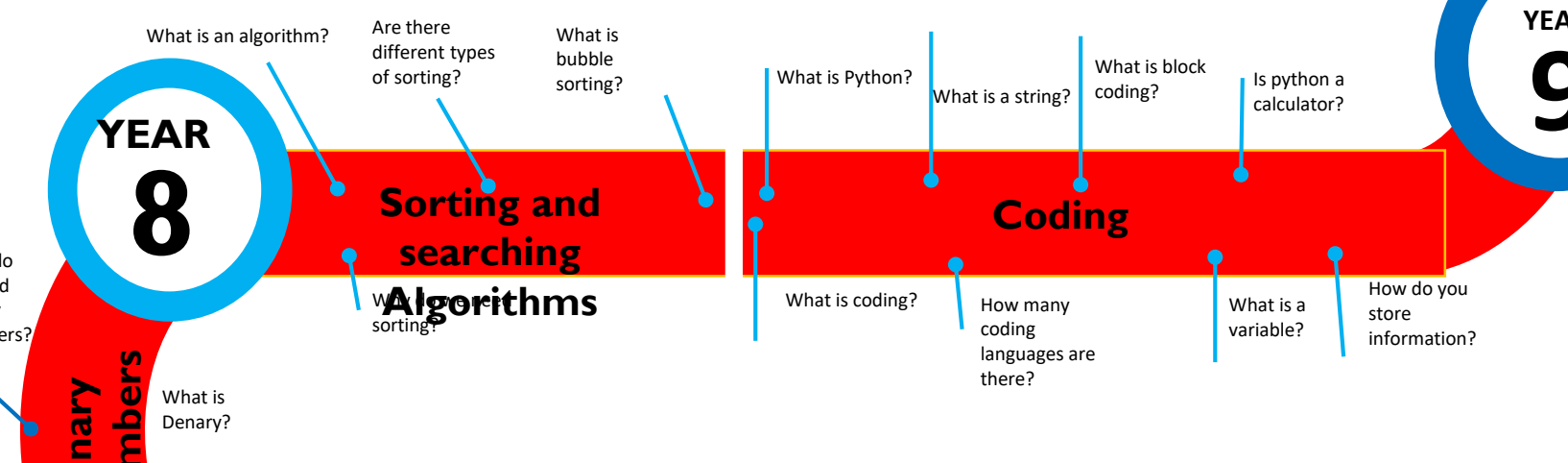
- Boolean Logic
- Logic Symbols
- Binary Logic
- Logic and truth Tables
- What is logic?
- Errors and correcting Algorithms
- Defensive Design
- Data Types
- File Handling
- String Manipulation
- Sequence, Selection, Iteration
- Debugging Tools
- Testing
- Maintainability
- Subprocedure and functions
- Databases and SQL
- Arrays



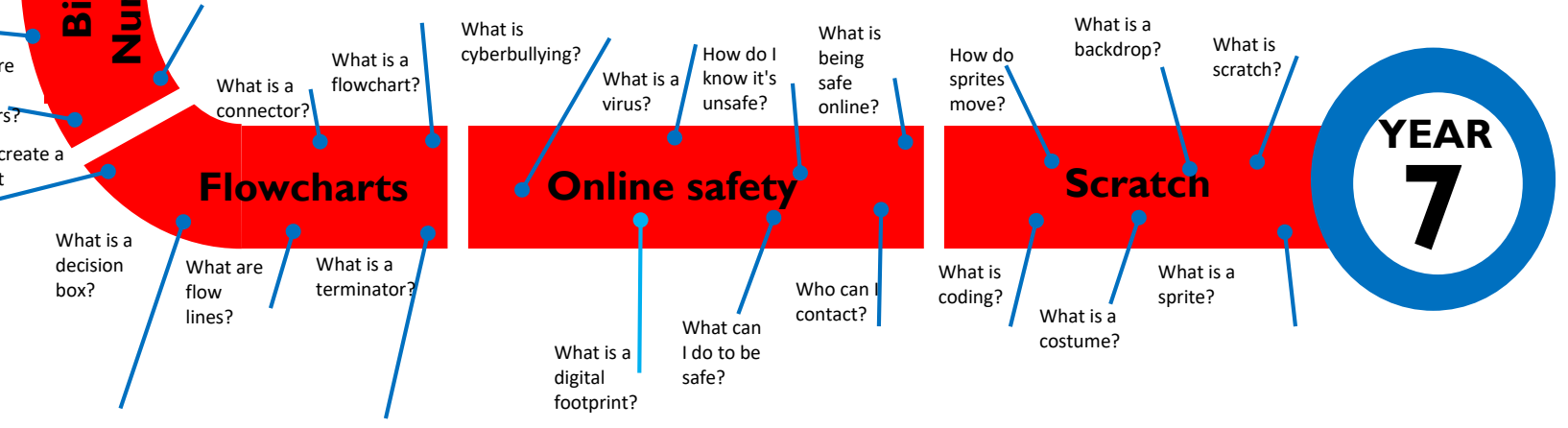
- Combine pseudocode with a chatbot
- Create a chatbot
- What is the difference between if/else and Elif statements?
- How do you code an Elif statement?
- What is an Elif statement?
- What is an if or else statement?
- Why are variables important?
- How do pseudocode and python work together?
- What is pseudocode?
- How do we remain safe on the network?
- What is a logical Topology?
- What is a mesh topology?
- Are there different computer networks?
- What powers a computer?
- How is data stored?
- What makes a computer turn on?
- Sorting Algorithms
- What is a chatbot?
- Debugging
- Purpose and components of the CPU
- Fetch-Decode-Execute cycle
- Embedded Computers
- Multi-core processors
- Network Security
- Network Threats
- Malware
- Social Engineering
- Why is Network security important?
- preventing vulnerabilities



- What is an algorithm?
- Are there different types of sorting?
- What is bubble sorting?
- What is Python?
- What is a string?
- What is block coding?
- Is python a calculator?
- How do we add binary numbers?
- What are bits?
- What are binary numbers?
- How we create a flowchart
- What is Denary?
- What is a connector?
- What is a flowchart?
- What is cyberbullying?
- How do I know it's unsafe?
- What is being safe online?
- How do sprites move?
- What is a backdrop?
- What is scratch?
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- What processes the data?
- What is hardware?



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- What is scratch?
- What is a decision box?
- What are flow lines?
- What is a terminator?
- What is a virus?
- Who can I contact?
- What is coding?
- What is a costume?
- What is a sprite?
- What is a digital footprint?
- What can I do to be safe?