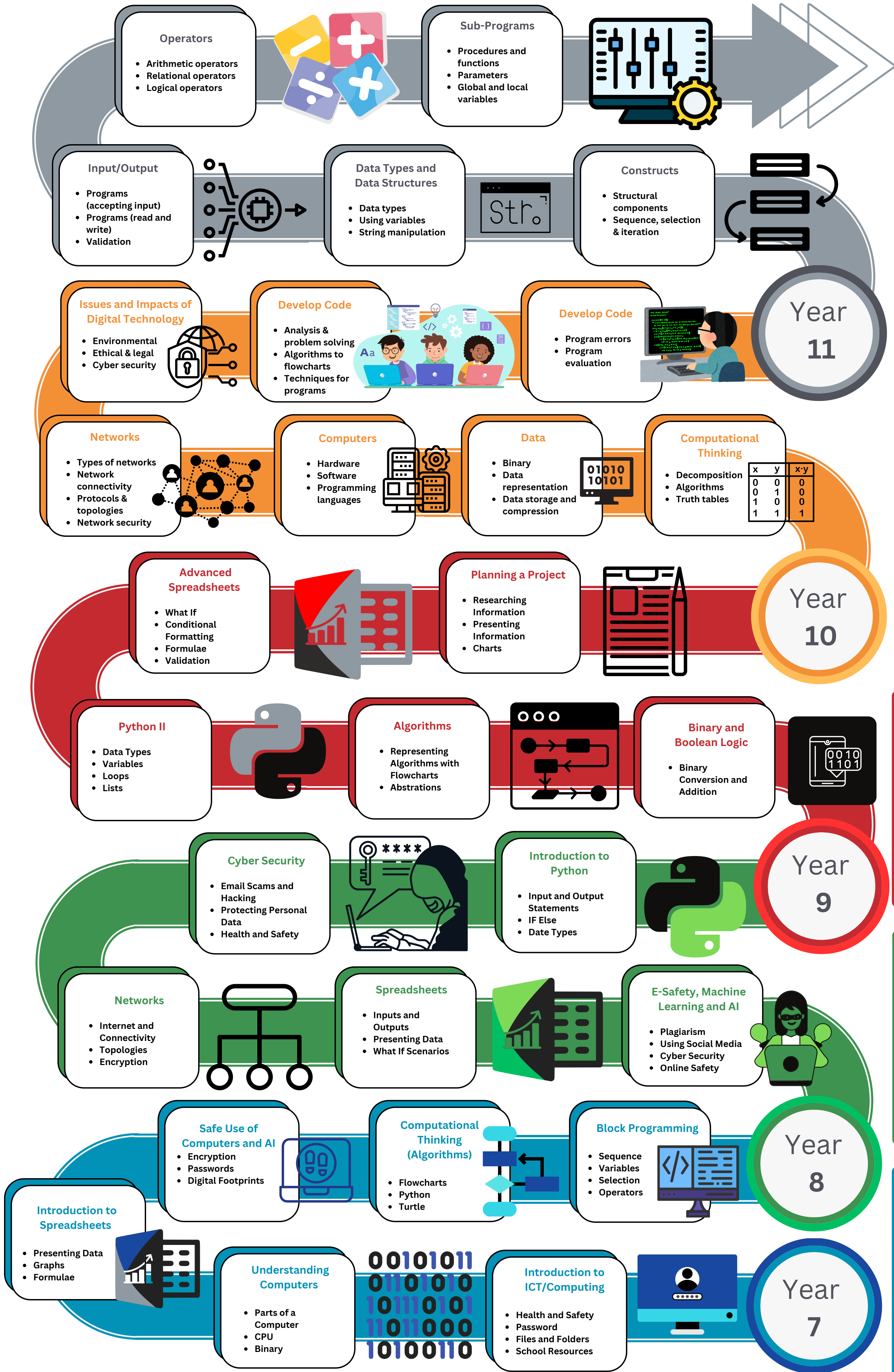


# Computer Science Learning Journey



**Year 11 Overview**

Understand programming constructs whilst working with various data types, variables, and string manipulation techniques to create more sophisticated programs. Develop skills in handling input and output operations with proper validation, apply arithmetic, relational, and logical operators effectively, and learn to write modular code using procedures, functions, and parameters.

**Year 10 Overview**

Develop fundamental computational thinking skills, whilst exploring how computers process and store data in binary format and examining hardware, software, and programming languages. Investigate network systems, connectivity protocols, and security measures, analyse the environmental, ethical, and legal impacts of digital technology, and apply problem-solving techniques to develop, debug, and evaluate programs.

**Year 9 Overview**

Simple Binary operations; Collecting and analysing data to meet needs of users; Understand key algorithms; Solve computational problems using programming languages; Understand how data can be manipulated.

**Year 8 Overview**

Collecting and analysing data; Recognising inappropriate content and how to report concerns; Creative projects that combine applications to meet the needs of users; Understand hardware and software components; Using programming languages to solve problems.

**Year 7 Overview**

Understanding how to use technology safely; Undertake projects that use multiple applications; Understand how numbers are represented in Binary; Understand key algorithms; Designing, writing and debugging programs; Protect their identity online.