



Computer science progression Cronton CE

EYFS

- Sequence a series of events and understand the importance of sequencing.
- Experiment with controlling a range of toys, focusing on direction.
- How to access the web.
- Type key words on a search engine.

YEAR

1

- Create a simple sequence algorithm.
- Create a simple program and debug any mistakes.
- Make predictions when using technology.
- Learn how to sign into a device.
- Use a search engine to find different types of media.

YEAR

2

- Write algorithms and turn these into programs.
- Create a simple program using the repeat X loop.
- Understand the difference between input and output.
- Offer accurate predictions of programs.
- Learn how multiple services use the internet.
- Search and navigate a search engine.

YEAR

3

- Create a detailed flow diagram.
- Test a program and recognise when it needs to be debugged.
- Create a variable.
- Create a program containing inputs, outputs and selections.
- Understand how sending an email works.
- How information travels through computer networks.
- How search engines order results.

YEAR

4

- Design an algorithm to show a real-life situation.
- Learn about abstraction and decomposition.
- Learn the structure of a program.
- Write a complex program, incorporating selection, inputs, repetition, variables and procedures.
- Key services that can be used to communicate on the internet.
- Recognise the hardware that can be used to join computer networks.
- Learn that search engines use algorithms.

YEAR

5

- Plan, write and test their own programs, creating more complex problems.
- Explore logical reasoning in greater depth.
- Learn about software, hardware and connected computers.
- How data travels through the internet using binary.
- Create a basic webpage using HTML.
- Learn settings that can alter search results.

YEAR

6

- Create complex algorithms and turn their designs into a program.
- Execute and adapt common commands using a text based language.
- Independently use logical reasoning to detect errors.
- Learn how computers communicate using packets and IP addresses.
- Explore advanced features within search engines.