

# Computer Science

## Year 8

### Topics studied:

Students study Computer Science for one term in Year 8. They learn how data is represented in computer language and create their own website using a programming language called HTML. In addition to this, students are made aware of the legal, ethical and environmental factors related to the use of technology.

### Keywords that students should know, and be able to spell, by the end of Year 8:

Binary, Denary, ASCII (American Standard Code for Information Interchange), Characters, Algorithms, Flowchart, Pseudocode, HTML (Hypertext Mark Up Language), Websites, Body, Headings, Title, Tags, Embedding, Legislation, Data Protection Act, Computer Misuse Act, Copyright, Designs and Patents Act, Cybersecurity, Freedom of Information, Privacy

### Subject specific websites to support revision and independent learning:

<http://www.teach-ict.com/>

<http://www.bbc.co.uk/education/subjects/z34k7ty>

<https://code.org/>

### Recommended reading:

Theory notes on above subject specific websites.

### To help your child in Computer Science this year you can:

- support them in learning how to spell the keywords above
- ask them to explain the keywords above by reflecting on their lessons
- encourage them to access the above subject specific websites and to undertake further reading on the topics covered and complete the tests/quizzes

### Additional Information:

Students have one Computer Science lesson per week and will be set a homework task every three lessons. They will complete a milestone assessment after approximately 12 lessons.