

Raising aspirations – Computing

At Ormiston Bushfield Academy, we believe every student deserves the chance to explore, question, and excel in computing. This page brings together a carefully chosen selection of books, websites, and podcasts designed to spark curiosity, deepen understanding, and reveal the exciting possibilities within the world of technology. Whether you're searching for your next inspiring read, a challenging problem to solve, or insights from leading experts, you'll find resources here to fuel your ambition and raise your aspirations.

Suggested Reading list

KS3 (years 7-9)

Hello World: How to Be Human in the Age of the Machine by Hannah Fry – Introduces algorithmic thinking and ethical implications of AI in an accessible way.

Computational Fairy Tales by Jeremy Kubica – Uses storytelling to explain advanced computing concepts like recursion and algorithms.

How to Code in Python by Lucy Smith – Goes beyond basics into problem-solving and computational thinking.

KS4/5 (years 10-13)

Structure and Interpretation of Computer Programs by Harold Abelson & Gerald Jay Sussman – A classic text for understanding programming paradigms and abstraction.

Artificial Intelligence: A Guide for Thinking Humans by Melanie Mitchell – Explores AI concepts, limitations, and future implications.

Clean Code: A Handbook of Agile Software Craftsmanship by Robert C. Martin – Teaches principles of writing efficient, maintainable code.

Websites

Seneca app.senecalearning.com – Seneca

Isaacs Computer Science isaaccomputerscience.org – Isaacs Computer Science

Ada Computer Science adacomputerscience.org – Ada Computer Science

GeeksforGeeks geeksforgeeks.org – In-depth tutorials on algorithms, data structures, and advanced topics.

Podcasts

CodeNewbie – Stories and advice for people learning to code.

Command Line Heroes – Explores the history and future of coding and technology.

The Stack Overflow Podcast – Insights from developers and tech professionals.