COMPUTER SCIENCE – SIXTH FORM READING LIST

Algorithmic Puzzles
Anany Levitin and Maria Levitin
O.U.P., 2011.

The Annotated Turing: A Guided Tour Through Alan Turing's Historic Paper on Computability and the Turing Machine
Charles Petzold
John Wiley & Sons 2008

Code: The Hidden Language of Computer Hardware and Software *
Charles Petzwold
Microsoft Press, 2000.

The Code Book: The Secret History of Codes and Code Breaking *
Simon Singh
Fourth Estate, 2002.

Computational Fairy Tales
Jeremy Kubica
CreateSpace Independent Publishing, 2012.

Computer Science: An Overview- Global Edition (12ᵗʰ edition)
J. Glenn Brookshear and Dennis Brylow
Pearson, 2014.

Foundations of Computer Science
A. V. A. and J. D. U.
Stanford University 1994 (available on shared area)

The Information: a history, a theory, a flood *
James Gleick
Fourth Estate, 2012.

The New Turing Omnibus: 66 Excursions in Computer Science
 A. K. Dewdney
 B. Palgrave Macmillan, 2003.

Out of their Minds: The Lives and Discoveries of 15 Great Computer Scientists
Dennis Shasha and Cathy Lazere
Springer New York, 2008.

The Pattern on the Stone: the simple ideas that make computers work *
W. Daniel Hillis
Basic Books, 1999.

The Pleasures of Counting
T. W. Korner

C.U.P., 1996.

Where Wizards Stay Up Late: The Origins of the Internet
Katie Hafner & Matthew Lyon
Simon & Schuster 1998
    * In stock in the School Library

For further information about these books, plus details of useful websites, go to the University of Oxford's Computer Science Departmental website covering background reading and activities:
http://www.cs.ox.ac.uk/admissions/undergraduate/why_oxford/background_reading.html#Book

Compiled by R. Barfoot (03/01/2017)