

Computer Science

Year 9 Revision Guide

Online resources:

- BBC Bitesize: <http://www.bbc.co.uk/education/subjects/zvc9q6f>,
<http://www.bbc.co.uk/education/subjects/z8mtsbk>
- Teach-ICT: <http://teach-ict.com/>

Topic	Content
Binary Logic	<ul style="list-style-type: none">▪ Explain how computers see the world▪ Explain what is binary▪ Convert Binary numbers into Denary▪ Convert a Denary Number to Binary▪ Subtract two binary numbers▪ Add two or more binary numbers together
Logic Gates	<ul style="list-style-type: none">▪ Understand the concept of bistable devices.▪ Understand the functions of logic gates.▪ Understand the functions of truth tables.▪ Produce simple and complex logic diagrams using the operations NOT, AND and OR.▪ Produce a truth table from a given logic diagram.
Programming using Python (Chapters 1 to 3)	<ul style="list-style-type: none">▪ Distinguish between a logic error and a syntax error.▪ How to do mathematical calculations:<ul style="list-style-type: none">○ Additions○ Subtraction○ Multiplication and division○ Order of operations▪ Definitions of values, variables, constants and expressions▪ Assigning values to variables▪ Evaluate expressions▪ Store values in a statement▪ Data type definition – integer, real/float, string, etc.▪ Use the type() function to find out the data type of an object▪ String operations▪ Taking input from a user▪ Write Python program solutions from a given problem.