



Keywords: Autumn 2

Year 11 Computer Science

Topic Title: Logic and Languages

Keyword	Definition
Boolean Functions	AND, OR and NOT are Boolean operators A computer can calculate the results of A AND B, A OR B, or NOT A
Truth Tables	A truth table shows the output from all possible combinations of inputs from a Boolean expression
Logic Gates	A logic gate is a device that acts as a building block for digital circuits. They perform basic logical functions that are fundamental to digital circuits.
Logic Diagrams	Diagrams to represent digital circuits and logic gates.
Truth Table	It shows all possible combinations of inputs and the outputs they create.
Input validation	Checking input meets certain rules, e.g. the type of data
Anticipating misuse	Preventing too many entries of a password to make it harder for hackers to guess
Authentication	Entering data twice or checking from an alternative source
Syntax errors	A syntax error is one where the code written doesn't conform to the rules of the language

Logic Error	The program will run, but it won't work as the programmer intended
Machine Code	Instructions that computers can understand e.g. binary
Assembly language	Allows a programmer to create programs more easily than writing in machine code
High level languages	High-level languages – programming language such as Python that generally have statements that look a bit like English or Maths.