## GCSE COMPUTING KNOWLEDGE ORGANISER

## 2.4 BOOLEAN LOGIC





Simple logic diagrams using the operators "AND", "OR" AND "NOT" Truth tables

Combining Boolean operators using "AND", "OR" and "NOT"

Applying logical operators in truth tables to solve problems

millions of switches. As electrical switches have two possible values (**ON** or **OFF**), these values can be represented using binary values **1** or **0**. Each circuit contains logic gates and **BOOLEAN LOGIC** is used to evaluate the results of different combinations of 1's and 0's.

Computers are made up of circuits containing

There are a number of different logic gates which produce different results when they receive inputs (1's and 0's.)

