

## Year 12 Computer Science

**3.0 Programming project**  
Analysis of the problem

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**1.3.4 Web technologies**  
HTML, CSS & JavaScript -  
PageRank algorithm -  
Server and client side  
processing.

**1.5 Legal, moral, cultural &  
ethical issues**  
Computing related  
legislation - Moral and  
ethical Issues

**1.3.2 Databases**  
Relational database -  
Normalisation - SQL - ACID

**1.3 Exchanging Data**  
1.3.1 Compression,  
Encryption & Hashing - 1.3.3  
Networks

**1.4.2 Data Structures**  
Linked-list -  
Graph - stack - queue -  
binary search tree - hash  
table.

**1.2 Software and software  
development**  
Systems software &  
development - applications  
generation - Programming  
languages

**1.4.3 Boolean Algebra**  
Boolean expressions -  
Karnaugh maps - Boolean  
algebra - logic diagram - D  
type flip flops

**1.1 The characteristics of  
contemporary processors,  
input, output and storage  
devices**

**1.4.1 Data Types**  
Positive binary - sign &  
magnitude - twos  
complement - floating point  
arithmetic - bitwise  
manipulation