Addition, half-adder

Validation,  
menus, etc.

Binary   
 flags,  
 binary-  
 decimal  
 conversion

Controls & navigation

Complex  
queries

Data,  
field  
types

**Computing**

Modelling

Error  
correction

File   
formats

Memory,  
storage  
& media

Game trees,  
 "knowledge", etc.

Forms, validation, etc.

if, while, etc.

Transparency,  
cropping, etc.

Shortest path,   
Chinese  
postman, etc.

Mark-up  
e.g. HTML  
and XML

Shift ciphers

Bitwise EOR - e.g. Lorenz

jpeg,  
GIF,  
 PNG

E-safety

**Graph Theory**

**User Interfaces**

Serial, parallel,   
error correction

**Use of  
Compression**

Conversion

Colours

**HTML/CSS**

**Hexadecimal**

**Use of  
Images**

**Networks**

**Databases**

**Spreadsheets**

**Bitwise Boolean Logic**

**Encryption Techniques**

Implied by the  
National  
Curriculum