Audio cable

network card

Exmouth Community College Academy Trust

APPLICATION SOFTWARE

An application is any program, or group of programs, that is designed for the end user.



Microsoft

Excel







Microsoft Word

Google Chrome



Firefox





Adobe Adobe Photoshop Dreamweaver

SPREADSHEETS

'*' multiply	AUTOSUM	Format	Row
'/' divide	AVERAGE	Formula	SUM
'-' subtract	Column	Labels	Validation
'+' add	COUNT	MAX	VLOOKUP
'=' equals	COUNTIF	MIN	Workbook
Alignment	Data	Number	Worksheet



SYSTEM SOFTWARE

System software helps run and maintain the computer. It includes the operating system, drivers and utility software.



iOS







Android Disk Defragmenter





Backup

KEYWORDS

Address	Digit	Interactive	Output
Algorithm	Digital	Interface	Processor
Binary	Environmental	Internet	Programming
Bit	Ethical	jpeg	program
Byte	Gigabyte	Kilobyte	Scanner
Cable	Graphic	Legislation	Server
Computer	Hardware	Megabyte	Software
Cursor	Icon	Memory	Spreadsheet
Data	Input	Network	Terabyte



headphones



MULTIPLES OF BYTES

Decimal

Bit

Short for binary digit. a single binary value of either 1 or 0

Nibble Half a byte, 4 bits

A measure of storage equal

Kilobyte (KB)

Byte

A measure of

storage

equal 8 bits

A measure of storage equal to 1000 bytes

Megabyte (MB)

A measure of storage equal to 1000 KB

Gigabyte (GB)

A measure of storage equal to 1000 MB

Terabyte (GB)

A measure of storage equal to 1000 GB

Binary

Kibibyte (KiB)

A measure of storage equal to 1024 bytes (10³)

Mebibyte (MiB)

A measure of storage equal to 1024 KB (10⁶)

Gibibyte (GiB)

to 1024 MB (10⁹)

Tebibyte (TiB)

A measure of storage equal to 1024 GB (1012)

Numbers

Binary	Denary	
0000	0	
0001	1	
0010	2	
0011	3	
0100	4	
0101	5	
1111	15	

PROGRAMMING

Boolean

Used where data is restricted to only two values: True/False, Yes/no, 1 or 0

Iteration

Uses a loop in a program to repeat something or execute a set of statements multiple times

Condition

Something that is evaluated as being TRUE or FALSE

Nesting

When on instruction is connected within another

Data Types

A classification of data which tells the computer how the programmer intends to use the data (e.g. interpret binary as an Integer or String)

Selection

A question to decide which branch of code to execute

ELSE

Code to run when none of the selections match

Sequence

An action leads to the next ordered action in a predetermined order

Float (or Real)

Used for number that contain a fractional part

String

Alpha-numeric characters from the alphabet of the machine: characters can be letters - ABC, digits – 123 and special symbols - !^ etc

IF (IF THEN // IF THEN ELSE)

Using questions that evaluate to TRUE or FALSE

SWITCH (//CASE)

Using a value to decide what code to follow or not

COMPUATIONAL LOGIC

Logic Gates

Logic gates have one or two inputs that can be turned on or off, the output from the gate will vary depending on the type of logic gate

AND Gate

An AND gate usually has two inputs. AND tells us that both Input A AND Input B have to 1 (or ON) in order for the output to be 1. Otherwise output is 0



OR Gate

An OR gate has two inputs. OR tells us that EITHER input A OR Input B has be to 1 (or ON) in order for the output to be 1. Otherwise the output is 0



NOT Gate

A NOT gate has just one input. NOT tells us that Input A has to 0 (or OFF) in order for the output to be 1. Otherwise the output is 0



Integer

A whole number. Includes negative whole numbers and zero