

Knowledge Organiser

Autumn 1 – Year 9 E-Safety & Coding

Integer	Whole number without decimal point data type e.g. 6
Operators	Symbols used in programming to perform operations on variables and values, such as +, -, *, /
Conditional Statements	Instructions in a program that execute different actions based on whether a condition is true or false
String	A sequence of characters, such as letters, numbers, and symbols, used to represent text in programming.
Algorithm	A list of instructions for solving a problem or performing a task.
Copyright	a legal right that protects original works of authorship. applies to literary, dramatic, musical, and artistic works, including software.
Plagiarism	Taking someone else's work or ideas and passing them off as one's own.
Variable	A named storage location in a program that holds a value, which can be changed during the program's execution.
Float	A data type in programming used to represent decimal numbers.
E-Safety	Knowledge that help protect you from online risks and dangers, such as cyberbullying

In python, we use command words such as **print** and **input** in a file, to run in a shell.

Conditional statements can be used in Python.

If statement is the simplest form of a conditional statement. It executes a block of code if the given condition is true. age = 20 if age >= 18: print("Eligible to vote."

```
age = 25

if age < 18:
    print("You're a minor.")
elif 18 <= age < 65:
    print("You're an adult.")
else:
    print("You're a senior citizen.")
```

Operator	Description
<	Less than
>	Greater than
<=	Less than or equal to
>=	Greater than or equal to
==	Equal to
!=	Not equal to

Operators are the symbols used in programs to perform operations.

There are 4 data types in python; string, float, integer and Boolean.

Variables hold data to use again in programs.

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