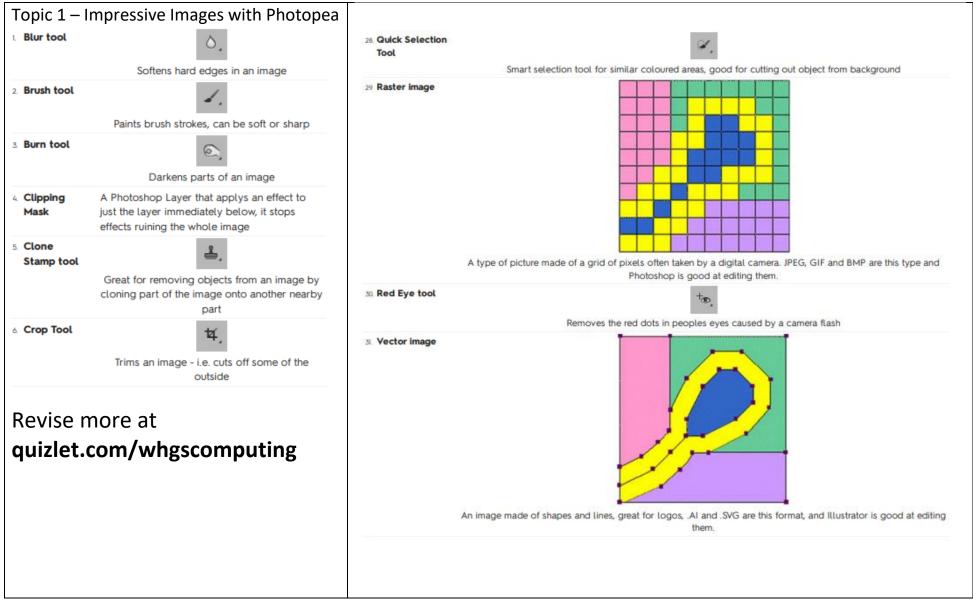
Year 8 Computing Knowledge Organiser



What is a Python?

Python is a **text based programming language** that can be used to create small programs, web applications, games and even search engines like Google and YouTube!

Python is easy to learn and is a great beginner language.



Print statements

In order to display text in the shell
you need to use a Print statement.
print ("Hello World")
print ("I am a programmer")

This is the output: Hello World I am a programmer

Input statements
Using var = input () we can ask a
user to input some information.
We can then print this back to the
console window.
userName = input("what is your name?")
print ("Welcome ", userName)
userName is a variable. This
means we can change the

information stored. We can also

name it whatever we want.

 Syntax
 IF/ ELIF
 String
 Integer

 IF statements
 IF statements can be used to select different options in a program depending on a condition.
 Also known as selection.

 question = input("Are you revising?")
 if question == "yes":
 print ("Well done!")

 elif question == "no":
 print("Oh dear!")

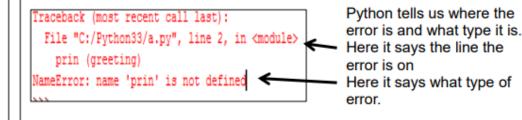
 else:
 print("I don't understand")

Syntax

Python

Syntax is what we call the format that the code needs to be in, in order to be processed correctly.

If it is not in the correct format then the code will not work.



Year & Topic Z **Protocial** Key Words

Programming Print Input

Executing a program

Variable

Output

Float

In order to run or **test** a program written in Python the user needs to go to **Run** and then **Run Module**.

Run	Options	Window	Alternatively, you could press the F5
Python Shell			button on the keyboard.
Check Module		τx	
Run Module F5		F5	

Variables

A variable is something that can be **used to store information**. The information that is stored can be changed.

Data types

Different types of data are stored in variables as different **data types**. There are **three** main data types: **String, Integer & Float**

String

A type of variable for storing **text** "strings" **e.g.** "Hello World" string = str("This is a string")

Integer

A type of variable for storing whole numbers e.g. 10, 182, -44 integer = int("This is an integer")

Float

A type of variable for storing decimal numbers. Also known as a real number e.g. 2.5, 5.05, 3.14

decimal = float("This is a decimal")