



In this unit, children will learn a few commands of a text-based programming language (Python), to create a simple, **text based** adventure game.

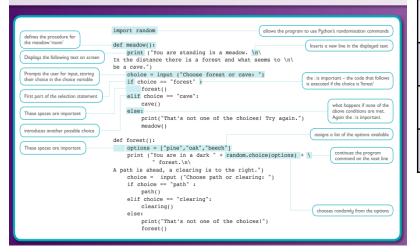
#### **Computer Science**

#### **Prior Knowledge**

Children will already know how design, program and debugs games using Scratch. For this project, they will use more advance programming software.

## 999

### Python syntax



Computing Key Vocabulary		
Binary	Binary is the language computers use. It is a series of 1s and 0s and is also used in mathematics.	
Descriptors	Contains information that describes data.	
Pathways	Defines the location of a file or folder in a computer's file system	
<b>Print</b> (Not linked to printing)	Sends text, variables, or another object to the screen.	
Procedure	A small section of a program that performs a specific task.	
Python	A computer programming language often used to build websites and software	
Repetition	Lines of code will be run multiple times.	
Selection	Where a section of code will run if a certain condition or instruction is met.	
Sequencing	The specific order in which instructions are performed in an algorithm.	
Syntax	Specific language (characters or symbol) that a computer can read.	
Variables	A variable is a piece of information in a program that we want to store but is able to change.	

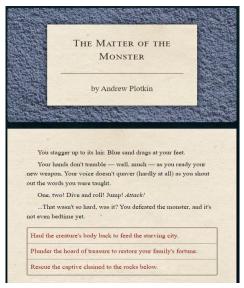




#### Year 6 – Spring Term 2 We Are Adventure Gamers Computing



# This half term we will be using... Hardware Software/Apps WinBooks Python



mygame25.py - /Users/m.berry/Documents/mygame25.py (3.5.1)	
<pre>def meadow():</pre>	
print ("You are in a beautiful, sunlit meadow. \n\	
The birds are tweeting and there are a few high clouds. \n\	
In the distance you notice a forest and what appears to \n\	
be the entrance to a cave")	
<pre>choice = input ("Choose forest or cave: ")</pre>	
if choice == "forest" :	
forest() elif choice == "cave":	
elif choice == "cave": cave()	
else:	
print("That's not one of the choices!")	
meadow()	
meddow()	
def forest():	
print ("You are in a gloomy forest\n\	
You see a clearing in one direction, everywhere else is more forest.")	
<pre>choice = input ("Choose clearing or 'go deeper': ")</pre>	
if choice == "clearing" :	
clearing()	
elif choice "go deeper":	
godeeper()	
else:	
<pre>print("That's not one of the choices!")</pre>	
forest()	
def caveO:	
print ("You are in a dark and damp cave\n\	
There's a wide passage or some narrow stairs")	
choice = input ("Choose passage or stairs: ")	
<pre>if choice == "passage" :</pre>	
passage()	
<pre>elif choice == "stairs":</pre>	
stairs()	
else:	
<pre>print("That's not one of the choices!")</pre>	
cave()	
def clearing():	
print ("You are in a clearing in the forest \n\	

#### **Binary letters**

```
01000001
               01001110
01000010
                01001111
01000011
                01010000
01000100
                01010001
01000101
                01010010
01000110
                01010011
01000111
                01010100
01001000
                01010101
01001001
                01010110
01001010
                01010111
01001011
                01011000
01001100
                01011001
01001101
                01011010
```

#### E-safety:

To understand why there is a PEGI age rating on games and how to stay safe when gaming online.

```
>> trinket ▶ Run ▼ ? Modules
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   🖺 Сору
 main.py
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  + 1 1
  1 import turtle
                                              def draw_circle(turtle, color, size, x, y):
                                                               turtle.penup()
                                                               turtle.color(color)
                                                             turtle.color(color)
turtle.fillcolor(color)
turtle.goto(x,y)
turtle.begin_fill()
turtle.pendown()
turtle.circle(size)
                                                               turtle.penup(
                                                               turtle.end_fill()
turtle.pendown()
                                         tommy = turtle.Turtle()
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Let's Learn Python!
                                       tommy.speed(500)
                                     draw_circle(tommy, "green", 50, 25, 0)
draw_circle(tommy, "blue", 50, 0, 0)
draw_circle(tommy, "yellow", 50, -25, 0)
                                     tommy.pchs(), 50h (), 50h (),
```

