Year 7 Homework Menu: Computing and ICT

For each unit you must choose one take away item for homework. The chilli rating suggests the difficulty of the task, or the challenge it might offer.

Choose your homework from the menu below. The extra hot tasks will gain the most bonus points. You can earn an extra bonus point for putting in maximum effort.

Your teacher will set your deadline and how you should submit your work.

More advanced thinking skills ↑

Thinking skills ↑

Creating	6	Create a repeating tile pattern which fills the screen	Create a complex coloured picture which fills the screen	Find examples of programs with commands you have not yet used and write your own program
Evaluating	5	Compare a simple Python Turtle program with written English – which is better or worse?	Explain how loops work and why they are a used	Describe the advantages and disadvantages of programming
Analysing	4	Explain why this program does NOT draw a Triangle: forward(100), right(60), forward(100), right(60), forward(100), right(60)	Write the commands to draw the rings at the bottom left of the page. Each ring is a different colour	Write 2 programs of your choice using Python Turtle and WHILE loops
Applying	3	What are the commands to draw a circle of radius 120?	What are the commands to draw a square of length 100?	Change the while loop below to loop twice: While counter < 8:
Understanding	2	Explain why you might get this error - NameError: name 'forward' is not defined	Explain why you might get this error - NameError: name 'Forward' is not defined	What does a '#' mean in Python programming and why is it used?
Remembering	1	What MUST you write at the top of EVERY Python Turtle program for it to work?	State the commands to move forward 50, turn left 80°, turn right 135°, turn the pen colour yellow and the background colour black?	What are the commands to fill a shape in a different colour?