

IT COMP Y9 CURRICULUM AND ASSESSMENT MILESTONES DOCUMENT

YEAR 9 CURRICULUM MILESTONES: IT COMP

Topic 1 - Advanced Python Text Based Programming	
Learning Aim	
Use the print function to be able to output code	
Describe what a syntax error is and identify errors in a piece of code	
Identify the types of data used in a program	
Use casting to create programs in Python	
Explain what is meant by the term 'Conditional formatting	
Use IF, ELIF and ELSE functions in a program	
Use While and For loops in a program	
Topic 2 – Analysing Data	
Learning Aim	
Describe the terms pattern recognition and abstraction	
Import data from an external source into Microsoft Excel	
Identify the characteristics of good quality data	
Create a number of Pivot tables in Microsoft Excel to summarise data	
Create charts and graphs to visually represent data	
Create a data dashboard to help analyse data	

Topic 3 – BITE Basics (New Unit)	
Learning Aim	
Describe how businesses differentiate their products from their rivals	
Explain what market segmentation is and how it is used to target different customers	
Describe what is meant by the term franchising and give real business examples	
Explain the strategies that businesses can use to price their products	
Explain with examples how businesses can advertise their products	
Topic 4 – Computing Impacts	
Learning Aim	
Explain the health, social and wellbeing issues related with computers	
Describe how businesses use computers on a day to day basis	
Explain what is meant by the term ethics	
Identify and describe the main computing laws	
Explain the environmental impacts of computing	
Explain what is meant by Artificial Intelligence	
Topic 5 – Safe Online Working	
Learning Aim	
Explain the difference between a fixed and a ad-hoc network	
Describe what cloud storage and cloud computing are and how they are used by businesses	
Explain what collaboration tools how and how they are used by businesses	
Explain how data is used over the internet and how to keep it safe	
Explain the main threats to data such as viruses	
Topic 6 – User Interface Design Theory	
Learning Aim	
Explain with examples what a User Interface is	
Describe the difference between UX and UI	
Explain the main design principles	
Outline the project planning process	
Design and create a user interface for given task	

YEAR 9 ASSESSMENT MILESTONES: IT COMP

Topic 1 & 2: Advanced	Pupils will complete a diagnostic test.		
Python Programming and Managing Data	Pupils should demonstrate knowledge of the following for Python: a recognition of an understanding of the term's: variable, algorithm, sequencing, iteration and debugging.		
	Pupils should demonstrate knowledge of the following for Spreadsheets (Managing Data) : What spreadsheets are commonly used for, what the difference between formulas and functions are and how data can be represented. They will also be given verbal feedback during the lessons.		
Topic 3 & 4: BITE Basics	Pupils will complete an end of topic diagnostic test which covers both topics.		
and Computing Impacts	Pupils should demonstrate knowledge of the following for BITE Basics: What the function of the marketing department is, how businesses use the 4Ps (product, price, promotion and place)		
	Pupils should demonstrate knowledge of the following for Computing Impacts: What the social, ethical and medical impacts of the increased use of IT are, the main environmental impacts of IT and the three main computing laws		
Topic 5 & 6: Safe Online	Pupils will complete an end of topic diagnostic test which covers both topics.		
Working and User Interface Design Theory	Pupils should demonstrate knowledge of the following for Safe Online Working: How modern technologies have impacted working practices, how people can work collaboratively with each other and how to keep data safe		
	Pupils should demonstrate knowledge of the following for User Interface Design Theory: The different types of user interface, how user interfaces can be made to suit people with different accessibility needs, how the design process works. There will also be a practical assessment of their user interfaces.		