

ASHTON COMMUNITY SCIENCE COLLEGE: COMPUTING CURRICULUM

Year 9						
	Half term 1	Half term 2	Half term 3	Half term 4	Half term 5	Half term 6
Knowledge	<p><u>Topic:</u></p> <ul style="list-style-type: none"> Python Programming 	<p><u>Topic:</u></p> <ul style="list-style-type: none"> Digital Graphics 	<p><u>Topic:</u></p> <ul style="list-style-type: none"> Ethical, Legal, And Environmental Issues in Computing 	<p><u>Topic:</u></p> <ul style="list-style-type: none"> Image & Sound Representation Advanced Python Programming 	<p><u>Topic:</u></p> <ul style="list-style-type: none"> Advanced Python Programming System Software 	<p><u>Topic:</u></p> <ul style="list-style-type: none"> Spreadsheet Modelling
Skills/ application of knowledge	<ul style="list-style-type: none"> How do I make programs in python? Be able to create programs using selection & iteration. How can I make my programs more efficient? How can I make my programs robust? 	<ul style="list-style-type: none"> What is the purpose & what are the properties of digital graphics. Be able to plan a digital graphic Be able to create a digital graphic Be able to review a digital graphic 	<ul style="list-style-type: none"> What are some of the ethical, legal, and environmental issues that computers have on society 	<ul style="list-style-type: none"> How do computers represent images? How do computers represent sound? What is compression and what effect does it have on storage. Be able to use procedures and functions in python Be able to use file handling when creating programs in python 	<ul style="list-style-type: none"> Be able to use procedures and functions in python Be able to use file handling when creating programs in python What is software? What is an operating system? What is utility software? 	<ul style="list-style-type: none"> Be able to use a range of appropriate formulas to produce key findings Be able to produce professional looking spreadsheets that contain advanced features such as charts and graphs
Links to prior learning	<ul style="list-style-type: none"> Year 7- Micro:bits, small basic Year 8- computational thinking, python introduction 	<ul style="list-style-type: none"> All lessons in year 7 & 8 contain aspects of the topic in addition to those specifically named below Year 7- IT skills, under the hood of a computer Year 8- multimedia products 	<ul style="list-style-type: none"> Year 7- E-safety, video & Sound editing Year 8 – multimedia products, system security 	<ul style="list-style-type: none"> Year 7- E-safety, Micro:bits, small basic Year 8- computational thinking, python introduction 	<ul style="list-style-type: none"> Year 7- E-safety, Micro:bits, small basic, under the hood of a computer, types of storage 	<ul style="list-style-type: none"> Year 7 – IT skills Year 8- multimedia products Year 9- digital graphics
Assessment	<ul style="list-style-type: none"> Theory test Practical test 	<ul style="list-style-type: none"> Theory test Creation of a digital graphic to meet a brief 	<ul style="list-style-type: none"> End of topic test Programming skills 	<ul style="list-style-type: none"> End of topic test Programming skills 	<ul style="list-style-type: none"> Theory test practical End of topic test 	<ul style="list-style-type: none"> Theory test Creation of spreadsheets to meet a brief