

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"> Data representation 	<p><u>Topic:</u></p> <ul style="list-style-type: none"> Digital graphics 	<p><u>Topic:</u></p> <ul style="list-style-type: none"> Python programming 	<p><u>Topic:</u></p> <ul style="list-style-type: none"> Python Programming Ethical, legal, cultural and environmental issues in computing 	<p><u>Topic:</u></p> <ul style="list-style-type: none"> Memory and storage 	<p><u>Topic:</u></p> <ul style="list-style-type: none"> Spreadsheet skills
Skills/ application of knowledge	<ul style="list-style-type: none"> Converting binary, denary and hexadecimal numbers How do computers represent images? How do computers represent sound? What is compression and what effect does it have on storage. 	<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"> How do I make programs in python? What are data types and why do computers need them? How can I make my programs more efficient? How can I make my programs robust? 	<ul style="list-style-type: none"> How do I make programs in python? What are data types and why do computers need them? How can I make my programs more efficient? How can I make my programs robust? What are some of the ethical, legal, cultural and environmental issues that computer shave on society 	<ul style="list-style-type: none"> Why does a computer need memory? Why does a computer need different types of memory? Why are some of the different types of memory faster than others? 	<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- under the hood of a computer Year 8- logic gates and truth tables 	<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- Micro:bits, small basic Year 8- computational thinking, python introduction 	<ul style="list-style-type: none"> Year 7- E-safety, Micro:bits, small basic Year 8- computational thinking, artificial intelligence, system software, python introduction 	<ul style="list-style-type: none"> Year 7- 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"> Mid unit assessment End of topic test 	<ul style="list-style-type: none"> Mid unit assessment End of topic test Creation of a digital graphic to meet a brief 	<ul style="list-style-type: none"> Mid unit assessment End of topic test Programming skills 	<ul style="list-style-type: none"> Mid unit assessment End of topic test Programming skills 	<ul style="list-style-type: none"> Mid unit assessment End of topic test 	<ul style="list-style-type: none"> Mid unit assessment End of topic test Creation of spreadsheets to meet a brief