Computing Curriculum 2016-2017

Autumn Term	
Year group	**Topics and Key Learning Points**
Year 7	Students will start the year investigating the following areas: • Baseline assessments – what do I know about computing? • What is a safe work environment? • What do I need to do to stay safe online? • What does a spreadsheet model do?
Year 8	Students in year 8 will start the year recapping e-safety as well as other areas of the Computing programme of study. Areas covered include: • How can I protect my online identity and privacy? • How important is audience, design and usability? • How do I program a computer?
Year 9 ICT / Computing	In year 9 students will look at key theory areas they can expect to find in their chosen KS4 course. Units they will cover include: • Inputs, Storage and Outputs • Hardware and Software • Networks and Communication • The Internet
Year 10 ICT	Students will start to complete work on the first task of their GCSE control assessment unit 2. Students will be given a scenario with a number of tasks they need to complete. Students will also recap theory work throughout this term sitting regular assessments.
Year 10 Computing	Computing students will develop key problem solving skills required for the course. Students will look at the first two topics of the course. They will investigate algorithms and will develop their programming skills looking at different testing procedures and coding problems.
Year 11	Students in their final year will begin by completing work on their final piece of control assessment unit 3. This year students will look at the organisation and running of a school sports team.

Students will also recap theory work throughout this term sitting regular assessments with the students closing the term with a mock exam.

Spring Term	
Year group	**Topics and Key Learning Points**
Year 7	Students will get a taste of programming and will investigate how the parts of a computer work. Areas include: • How do the parts of a Computer Work? • What does a database do?
Year 8	In year 8 students will progress and make key decisions on what hardware and software they would require to setup a computer system looking at key areas such as functionality and cost. Areas include: • How can I setup a Computer? • Spreadsheet modelling
Year 9 ICT	In this term students will start by completing a mock run though of the control assessment they will expect to complete at GCSE. They will also continue to revisit their theory work. Units include: • Mock control assessment • Database creation and use • Web design / Software Comparisons
Year 9 Computing	In Computing students will start to look some of the theory they can expect to find in their exam, students will look at algorithms, flowcharts, pseudocode as well as progressing their programming skills.
Year 10 ICT	Students will complete work on the second and third tasks of their GCSE control assessment unit 2. This year this is based around a school band and how it can be better promoted. Students will also recap theory work throughout this term sitting regular assessments with the students closing the term with a mock exam.
Year 10 Computing	Students will start the term by sitting a mock control assessment. This will follow the same format as the real life control assessment they will complete in year 11. Students however will be given a greater amount of time and feedback. A number of students will also prepare to sit their ECDL examinations and will look at the key skills they will need to

	complete the exam.
Year 11	Students will complete their unit 3 control assessment before returning to theory work to prepare them for their final exam in May. Students will recap all topics as well as looking at past papers and key exam areas.

Summer Term	
Year group	**Topics and Key Learning Points**
Year 7	Students will end year 7 by looking at programming and how they can create code for different scenarios. They will look at a range of visual and text based programming applications. Areas include: • Why do computers only do what they are told?
Year 8	In year 8 students will look a real world databases as well as how they can create their very own app. Areas include: • How are database used in the real world? • How do I make an app?
Year 9 ICT	Students will start to prepare for their GCSE control assessment by looking at the key areas and purpose of the systems life cycle before ending the year by completing a mock control assessment for unit 2.
Year 9 Computing	In Computing students will return to theory work looking at how to create their own website using HTML and completing a series of computing challenge lessons.
Year 10 ICT	Following and end of year theory exam to test their subject knowledge students will begin to prepare for their final piece of control assessment, unit 3, and will start to build key skills in this area. Students will focus on modelling and will recap database skills. Students at this point may also start sitting some of their ECDL examinations.
Year 10 Computing	Following the mock control assessment students will return to the theory aspects of the course looking a data. Students will look at how computers carry out instructions, binary, hexadecimal conversion and compression.
Year 11	**Exam Preparation:** Students will be preparing for their GCSE Exams