



	Intent <ul style="list-style-type: none"> • understand and apply the fundamental principles and concepts of IT, including the use of IT in the digital world, Internet of Everything, data manipulation and Augmented Reality • understand, apply and use IT appropriately and effectively for the purpose and audience • develop learning and practical skills that can be applied to real-life contexts and work situations • think creatively, innovatively, analytically, logically and critically • develop independence and confidence in using skills that would be relevant to the IT sector and more widely • plan, design, create, test and evaluate/review IT solutions and products which are fit for purpose and meeting user/client requirements and apply design and Human Computer Interface (HCI) considerations appropriate for a defined audience • understand the impacts of digital technologies on the individual, organisation and wider society. 		
Information Technologies			
Year 10	R050: IT in the digital world (Autumn/Spring/)	R060: Data manipulation using spreadsheets (Autumn/Spring/Summer)	R070: Using Augmented Reality to present information (Summer)
Knowledge (facts, information, concepts and key terminology)	<ul style="list-style-type: none"> • Design Tools • Human Computer Interface (HCI) in everyday life • Data and testing 	<ul style="list-style-type: none"> • Planning and designing the spreadsheet solution • Creating the spreadsheet solution • Testing the spreadsheet solution • Evaluating the spreadsheet solution. 	<ul style="list-style-type: none"> • Augmented Reality (AR) • Designing an Augmented Reality (AR) model prototype
Understanding (ability to connect and synthesise knowledge within a context)	Will learn about design and testing concepts for creating an IT solution or product, and the uses of IT in the digital world.	Will learn how to plan, design, create, test and evaluate a data manipulation spreadsheet solution to meet client's requirements. You will be able to evaluate your solution based on the user requirements.	Will learn how to design, create, test and review an Augmented Reality model prototype to meet a client's requirements
Skills (successful application of knowledge and understanding to a specific task)	Be able to use different design tools that, the principles of human computer interfaces and the use of data and testing when creating IT solutions or products.	Will develop the skills to plan and design a spreadsheet solution to meet a client's requirements. You will be able to use a range of tools and techniques to create the spreadsheet solution which will be tested, and you will learn to evaluate your spreadsheet solution.	Will develop the knowledge and skills relating to the purpose, use and types of Augmented Reality (AR) in different contexts and how it is used on different digital devices. You will develop the skills to design, create, test and review an AR model prototype
Formal Assessments (those done by all/vast majority of the cohort)	R050 will be assessed through classwork, homework and formal Assessments such as the end of Year exam. R060 & R070 through homework, class set practical assignments and formal completion of the R060 Exam Board Assignment in the summer term. R070 will be assessed in Year 11 There are regular assessments throughout the year covering these topics, which build on previously taught content.		
By the end of the year students on course for at least a level 2 Pass will... <ul style="list-style-type: none"> • Plan a project using suitable tools. • Know how to collect and arrange data in a form suitable for processing. • Be able to select and apply advanced data manipulation tools. 			