Year 13 ICT

Overall Intent:

To develop and apply software skills across a range of scenarios. In year 13, students will develop the core knowledge, skills and understanding required in the IT sector and develop further skills by completing a range of units through a choice of specialist pathways. They will build upon the theory and knowledge acquired in year 12 and will compete three practical projects. Each project will address a set of skills which can be used in the workplace. The three projects cover Project Management, Web Development and Application Development.

	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Topic/area of study	UNIT 8: PROJECT PLANNING		UNIT 21: WEB DEVELOPMENT EXAM RESITS		UNIT 6: APP DEVELOPMENT AND PRODUCTION EXAM RESITS	
Key learning aims – knowledge and skills	Students will: Understand what the typical phases of a project life cycle are. Know and be able to evaluate and compare different project methodologies. Know and explain the impact of identified issues on a project, explain the resource available to support the project manager.	Students will: Create a PERT chart for their defined project. Discuss issues affecting project management. Learn how to follow a project plan to carry out a defined project and carry out a review of the project management process. Learn how to use Gantt charts. Evaluate the use of Gantt and PERT	Students will: Understand web architecture and components. Understand the factors that influence website performance. Be able to design a website. Be able to create a website.	Students will: Be able to explain the user side and server-side factors that influence the performance of a website. Learn how to use appropriate design tools and design an interactive website to meet a client's needs. Learn the skills and techniques needed to create an interactive website to meet a client's needs.	Students will: Understand the communication principles of computer networks. Know the main elements of data communication systems. Be able to implement different forms of network communications.	Students will: Explain how networks communicate. Identify communication protocols and models. Identify different types of communication devices. Compare different electronic communication methods. Set up interconnection

		charts in project planning, making recommendations and improvements for future use.		Learn how to implement CSS in an interactive website to improve the site to meet a client's needs. Be able to compare and contrast current interactive websites for performance and security.		devices for direct communication. Describe different transmission methods used.
Assessment	Unit 8 coursework draft	Unit 8 final coursework	Unit 21 coursework draft	Unit 21 final coursework	Unit 6 final coursework Exam resits (for some students)	Final coursework moderation