ICT & Computing Qualifications & Pathways

BCHS with Crosshill

Course Title	**ECDL Certificate in IT Application Skills (Level 2)**
Exam Board	BCS
GCSE Equivalent	1 x GCSE A*-C
Assessment Breakdown	4 mandatory components, E- Assessment, 4 tier grading structure
Course Outline	**Word Processing Software Exam (R/502/4628):** Online (1 hour, 30glh). Create and edit word processing documents. Apply different formatting techniques including tables, pictures and different text types. Use templates and customise document styles. How ICT can be used to support business working practices (communication, mail merge). **Spreadsheet Software (F/502/4625):** Online (1 hour, 30glh). Manipulate numerical data using spreadsheets. Use formulas to make calculations. Create graphs and charts from data. **Presentation Software (M/502/4622):** Online (1 hour, 30glh). How to design and produce high-quality presentations to communicate information. Organise and combine information from different places. Insert images, video or sound to enhance the presentation. **Improving Productivity Using IT (J/502/4156):** Online (1 hour, 30glh). Use of automated IT tools to improve efficiency; such as macros and mail merge. Ability to check accuracy of work. Ability to choose the correct or most appropriate tool for the task.
Progression Routes to Further Education/ Training	This qualification covers core IT applications commonly used in many businesses around the world. It will teach how to use a computer confidently and effectively, and encourages problem-solving, creativity and communication. As IT has become an integral part of learning, the ability to create professional documents, manipulate data and deliver high quality presentations is a vital skill that can be used in further learning and work placements.
Progression Routes to Employment	IT skills are used a variety of job roles including those in manufacturing, retail, education and hospitality.

Course Title	**Computer Science (9-1) (J276)**
Exam Board	OCR
GCSE Equivalent	1 x GCSE A*-C
Assessment Breakdown	**Exam 01:** Written paper (1 hour and 30 minutes - no calculators allowed). 40% of mark. **Exam 02:** Written paper (1 hour and 30 minutes - no calculators allowed). 40% of mark. **Controlled Assessment:** Non Exam Assessment (20 hours). 20% of mark.
Course Outline	**Exam (01): Computer systems:** Systems Architecture; Memory, Storage; Wired and wireless networks; Network topologies, protocols and layers; System security; System software; Ethical, legal, cultural and environmental concerns. **Exam (02): Computational thinking, algorithms and programming:** Algorithms; Programming techniques; Producing robust programs; Computational logic; Translators and facilities of languages; Data representation. **Controlled Assessment (03): Programming Project:** Programming techniques; Analysis; Design; Development; Testing, evaluation and conclusions.

Progression Routes to Further Education/ Training	There is a greater emphasis on 'computational thinking' which encourages mental versatility. Students can use their new-found programming skills on an independent coding project by solving a real-world problem of their choice. The specification challenges and inspires students to further study and to pioneer the use of digital technologies following a related career path.
Progression Routes to Employment	This qualification should prepare candidates to make informed decisions about their career choices. It should help them to gain an insight into related sectors. Candidates should acquire and apply knowledge, some technical skills and an understanding of the use of algorithms in computer programs to solve problems using programming language.

Course Title	**Cambridge National Certificate Level 2 in Creative iMedia (J817)**
Exam Board	OCR
GCSE Equivalent	1 x GCSE equivalent A* - C
Assessment Breakdown	**Unit R081(M):** Examination (1hour 15mins, 30glh) **Unit R082 (M):** OCR task (30glh) **Units R083-92:** 2 x optional units (30glh each unit)
Course Outline	**Mandatory Units:R081: Pre-production Skills** **R082: Creating Digital Graphics:** These units help learners to understand the basics of pre-production skills and graphic design for the creative and media sector. Learners will understand a client brief, time frames, deadlines and preparation techniques that form part of the planning and creation process. They will then evidence their understanding by creating graphic artwork for different purposes. **Optional units R083-92:** These units provide candidates with high quality, industry-recognised skills and knowledge and understanding of key concepts related to the imedia industry. Candidates will select from a programme that could include the following; interactive multimedia, creating video/audio sequences, character modelling, comic strip storytelling, creating multipage websites, games design and digital photography.
Progression Routes to Further Education/ Training	Learners can progress to vocational qualifications: IT User Skills, IT Professional and IT Practitioner suite of qualifications and Creative iMedia level 3 suite of qualifications. It will be suitable for those in full-time education who wish to gain access to the iMedia industry.
Progression Routes to Employment	This qualification will provide for candidates who wish to develop skills in one or more specialist areas. It will prepare learners for the requirements of their workplace situation, job role and/or recreational purposes.

How can parents support ICT & Computing?
- Ensure your child has a reliable Internet connection and appropriate device with which to complete their work at home
- Ask your child to show you their work via Citrix network connection and/or the school VLE
- All KS4 students are provided with a text book and other printed materials to assist independent learning; please help your child to organise their time
- Please feel free to contact Mrs Sillitoe (Director of Learning ICT & Computing) regarding any aspect of your child's learning