

## Curriculum Overview

### Subject: ECDL/ICT/Computer Science

	LC1	LC2	LC3	LC4	LC5
<b>Year 7 – ECDL Prep</b>	Presentations	Word Processing	Graphics	Spreadsheets	Improving Productivity
<b>Year 8 – ECDL</b>	ECDL Module 1 – Word Processing	ECDL Module 1 – Word Processing	ECDL Module 2 - Presentations	ECDL Module 2 - Presentations	ECDL Module 3 - Spreadsheets
<b>Year 9 - ECDL</b>	ECDL Module 3 - Spreadsheets	ECDL Module 4 – Improving Productivity	ECDL Module 4 – Improving Productivity	ECDL Module 4 – Improving Productivity	KS4 ICT & Computer Science prep courses  Robotics, Programming & Graphics
<b>Year 10 – BTEC ICT</b>	Unit 6 – Creating Digital Graphics	Unit 6 – Creating Digital Graphics	Unit 6 – Creating Digital Graphics	Unit 16 – Website Development	Unit 16 – Website Development
<b>Year 10 – Comp. Sci.</b>	Unit J276/02: Algorithms	Unit J276/02: Computational Thinking, Algorithms and Programming	Unit J276/02: Computational Thinking, Algorithms and Programming	Unit J276/01: Hardware and Networks	Unit J276/01: Software Unit J276/02: Robust Programs
<b>Year 11 – BTEC ICT</b>	Unit 1 – An Online World	Unit 1 – An Online World	Unit 3 – A Digital Portfolio	Unit 3 – A Digital Portfolio	
<b>Year 11 – Comp. Sci.</b>	Unit J276/03: Programming Project	Unit J276/01: Exam Revision Unit J276/02: Exam Revision			

### **Departmental Overview**

ICT and Computing is taught in one specialist classroom which has an Interactive Whiteboard and a suite of dedicated computers. The department is fully resourced with industry standard software. Most of the specialised software used within lessons is freely available to students for continued home study. Google Docs is also configured for every student allowing them to contact their teachers using email, complete and submit assignments electronically, and receive feedback.

### **Departmental Staff**

Mr. K Conlin                      Head of Applied Learning Faculty

## Year 7 ICT

<b>Examination/Specification</b>
Basic ECDL specification is followed throughout Year 7, developing student's skills for further ECDL study throughout Year's 8 and 9.
<b>Curriculum Overview</b>
LC1 - Presentations LC2 - Word Processing LC3 - Graphics LC4 - Spreadsheets LC5 - Improving Productivity
<b>Examination/Key Assessments</b>
Learning Cycle-based practical assessment.
<b>Homework</b>
Skills development related to PLC's are encouraged. Students wishing to complete ECDL qualification early have access to schemes of work and resources for home study.
<b>How parents can help</b>
Provide a laptop/computer for students to practice ECDL-related skills in preparation for Y8/9 examinations.

## Year 8 ICT

### **Examination/Specification**

**Full ECDL specification is followed throughout Year's 8 and 9. Students are entered for four online tests throughout these years with successful students achieving their first full GCSE qualification in preparation for further Y10/Y11 study.**

The course has four core units: Word Processing software, Spreadsheet software, Presentation software and Improving productivity using IT. The last unit develops problem-solving abilities so you can apply your new IT skills to a wide range of projects. Since everything's online, feedback is instant and automated!

You will be awarded the 'BCS Level 2 ECDL Certificate in IT Application Skills', which is welcomed by employers worldwide as proof of digital literacy. It also looks excellent on university or college applications.

### **Curriculum Overview**

LC1 – ECDL Module 1 – Word Processing

LC2 – ECDL Module 1 – Word Processing

LC3 – ECDL Module 2 - Presentations

LC4 – ECDL Module 2 - Presentations

LC5 – ECDL Module 3 - Spreadsheets

### **Examination/Key Assessments**

GCSE examinations will take place towards the end of LC2 and LC4. Mop-up examinations occur during LC5. Examination focus will be on the content of the material studied.

### **Homework**

Skills development related to PLC's are encouraged. Students wishing to complete ECDL qualification early/achieve higher marks have access to schemes of work and resources for home study.

### **How parents can help**

Provide a laptop/computer for students to practice ECDL-related skills in preparation for examinations.

## Year 9 ICT

<b>Examination/Specification</b>
<p>Full ECDL specification is followed throughout Year's 8 and 9. Students are entered for four online tests throughout these years with successful students achieving their first full GCSE qualification in preparation for further Y10/Y11 study.</p> <p>The course has four core units: Word Processing software, Spreadsheet software, Presentation software and Improving productivity using IT. The last unit develops problem-solving abilities so you can apply your new IT skills to a wide range of projects. Since everything's online, feedback is instant and automated!</p> <p>You will be awarded the 'BCS Level 2 ECDL Certificate in IT Application Skills', which is welcomed by employers worldwide as proof of digital literacy. It also looks excellent on university or college applications.</p>
<b>Curriculum Overview</b>
<p>LC1 – ECDL Module 3 - Spreadsheets LC2 – ECDL Module 4 – Improving Productivity LC3 – ECDL Module 4 – Improving Productivity LC4 – ECDL Module 4 – Improving Productivity LC5 - KS4 ICT &amp; Computer Science prep courses – All topics covered here are also covered throughout the extensive ICT clubs on offer to students. Topics include: Robotics;</p>
<b>Examination/Key Assessments</b>
<p>GCSE examinations will take place towards the end of LC1 and LC4. Mop-up examinations occur during LC5. Examination focus will be on the content of the material studied.</p>
<b>Homework</b>
<p>Skills development related to PLC's are encouraged. Students wishing to complete ECDL qualification early/achieve higher marks have access to schemes of work and resources for home study.</p>
<b>How parents can help</b>
<p>Provide a laptop/computer for students to practice ECDL-related skills in preparation for examinations.</p>

## Year 10/11 BTEC Level 2 ICT Award

<b>Examination/Specification</b>
<p>This BTEC builds on young people's love of digital devices. It explores how technology impacts on every aspect of our daily lives: learning, leisure, shopping and money management, health and well-being and being on the move. It will teach students to be 'savvy IT users', who understand the risks as well as the benefits and who use ICT safely and responsibly.</p> <p>This is an applied course that allows for the development of practical skills and general knowledge in relation to the world of work. This course is equivalent to One GCSE at a minimum of grade C.</p>
<b>Curriculum Overview</b>
<p><b>Unit 1: The Online World</b> (30 Guided Learning Hours) - Examination This unit will help you understand the main technologies and processes behind the internet and investigate how they come together to let you view websites and send information across the world.</p> <p><b>Unit 3: A Digital Portfolio</b> (10 Credits) - Coursework This unit is your chance to show off! A digital portfolio is an exciting onscreen way to showcase your achievements to potential employers or when applying for a course. It is all about: The projects that you have created and developed; Your use of communication and presentation skills; and your capabilities and potential.</p> <p><b>Unit 6: Creating Digital Graphics</b> (30 Guided Learning Hours) - Coursework In this unit you will investigate a range of applications and features of existing graphic products and consider their audience and purpose. You will be able to apply some of what you discover to your own digital graphic products.</p> <p><b>Unit 16: Website Development</b> (30 Guided Learning Hours) - Coursework In this unit, you will investigate the features and uses of websites by exploring what they are and how their integrated components and applications interact with each other. You will also learn how to design, develop and test a website for a brief. Once this is completed you will review your website, having obtained feedback from others.</p>
<b>Examination/Key Assessments</b>
<p><b>Year 10 – Unit 6 and Unit 16 will be completed in the form of project-based controlled assessments.</b></p> <p><b>Year 11 – Unit 3 will be completed in the form of a project-based controlled assessment. Unit 1 will be completed as an online examination.</b></p>
<b>Homework</b>
<b>How parents can help</b>

## Year 10/11 OCR GCSE (9-1) Computing

<b>Examination/Specification</b>
<p>Computing is of enormous importance to the economy, and the role of Computer Science is an underpinning subject across science and engineering. Computer technology continues to advance rapidly and the way that technology is consumed has also been changing at a fast pace over recent years.</p> <p>The growth in the use of mobile devices and web-related technologies has exploded, resulting in new challenges for employers and employees. Businesses now require technologically-aware individuals. As a result, GCSE Computing has now been added to the EBacc certificate.</p>
<b>Curriculum Overview</b>
<p><b>Unit J276/01: Computer Systems</b> (Examination)</p> <p>This component will introduce learners to the Central Processing Unit (CPU), computer memory and storage, wired and wireless networks, network topologies, system security and system software. It is expected that learners will become familiar with the impact of Computer Science in a global context through the study of the ethical, legal, cultural and environmental concerns associated with Computer Science. It is expected that learners will draw on this underpinning content when completing the Programming Project component (03).</p> <p><b>Unit J276/02: Computational Thinking, Algorithms and Programming</b> (Examination)</p> <p>This component incorporates and builds on the knowledge and understanding gained in Component 01, encouraging learners to apply this knowledge and understanding using computational thinking. Learners will be introduced to algorithms and programming, learning about programming techniques, how to produce robust programs, computational logic, translators and facilities of computing languages and data representation. Learners will become familiar with computing related mathematics. It is expected that learners will draw on this underpinning content when completing the Programming Project component (03 or 04).</p> <p><b>Unit J276/03: Programming Project</b> (Controlled Assessment)</p> <p>Learners will need to create suitable algorithms which will provide a solution to the problems identified in the task. They will then code their solution in a suitable programming language. The solution must be tested at each stage to ensure they solve the stated problem and learners must use a suitable test plan with appropriate test data.</p>
<b>Examination/Key Assessments</b>
<p><b>Unit J276/01: Computer Systems: Examination as part of June suite of exams. (40%)</b></p> <p><b>Unit J276/02: Computational Thinking, Algorithms and Programming: Examination as part of June suite of exams. (40%)</b></p> <p><b>Unit J276/03: Programming Project: Controlled assessment completed by November in Year 11. (20%)</b></p>
<b>Homework</b>
<b>How parents can help</b>

