Holy Family Catholic High School

Subject	Year	Term
WJEC LEVEL 1/2 VOCATIONAL AWARD IN ICT	**10**	Summer

Topic
1.1   How IT can be used to fulfil the needs of organisations and individuals

Content - Intent

Prior Learning (Topic)	Key Stage 3 National Curriculum

Students should understand the hardware and software components that make up computer systems, and how they communicate with one another and with other systems. At KS3 students have also studied how instructions are stored and executed within a computer system. They should be able to show how data of various types (including text, sounds and pictures) can be represented and manipulated digitally.

Students will have undertaken creative projects that involve selecting, using, and combining multiple applications, preferably across a range of devices, to achieve challenging goals, including collecting and analysing data and meeting the needs of known users

Students should also understand a range of ways to use technology safely, respectfully, responsibly and securely, including protecting their online identity and privacy; recognise inappropriate content, contact and conduct and know how to report concerns.

Future Learning	1.2 How data and information is used and transferred

What Knowledge and Skills will be Taught (Implementation)	How will your understanding be assessed and recorded (Impact)
1.1.1 Functionality of different hardware devices Learners should know and understand types of: computing devices, input devices, output devices, storage devices, basic internal components and ports.	Students will be already be familiar with a range of input, output and storage devices from KS3 but they may be less familiar with basic internal components such as ports. Learners should not only be able to recognise various hardware devices, but they should also understand their function both for Personal use and for business use.
1.1.2 Functionality of different software Learners should know and understand the difference between System software and Utility software. Students will also gain an understanding in the different types of application software.	Learners should already understand the concept of software and will appreciate the function of packages known to them. In the KS3 curriculum learners learn about system, application and utility software, which is key to operating a stand-alone or network system computer or another device (e.g., phone). They are now required to extend their knowledge to being able to understand the range of software that is available with a wider knowledge for business use. This knowledge also allows learners to understand the use of software for analysing and evaluating data sets and improving productivity in relation to time/resource management. This will enable learners to be able to fix simple

	software malfunctions and maintain software.
1.1.3 Services provided by IT Learners should be aware of how each service improves efficiency/productivity for businesses and/or individual users Smart technology, Gaming, Image and sound capture and manipulation, Social networking, Mobile Technology, E-commerce, Robotics and bionics, Artificial intelligence (AI) and expert systems, Accessibility, 3D Printing, Cloud computing and Emerging technologies.	Learners will already be aware of many of the services provided by IT but may not have previously considered how each service could improve efficiency and productivity. Learners should be taught how they personally can take advantage of IT services for leisure and recreation to help them organise their finances, schedules and activities. They also need to understand how these services improve efficiency and/or productivity commercially as this will both improve their understanding and prepare them for the world of work. This topic could be introduced in a brainstorming session, with learners creating mind maps to explore the benefits of each of the services listed. Learners also need to learn about potential future developments and emerging technologies in Technology, including AI and expert systems, to give them awareness of the future world they will be Living in.

How can parents help at home?

Parents can help by ensuring revision and homework is completed.

Helpful further reading and discussion

Reading
Level 1/2 Vocational Award ICT Course Companion
  https://www.wjec.co.uk/qualifications/level-1-2-vocational-award-in-ict/?sub_nav_level=books#tab_resources