



Our Lady's Catholic College

CAREERS IN COMPUTING

Our Lady's Catholic College, Morecambe road, Lancaster, La12rx

Introduction

As technology continues to advance at a rapid pace, it is becoming increasingly important for our students at Our Lady's to have the skills and knowledge needed to thrive in the digital age. Computing and ICT are critical subjects in the modern world, and they offer a wide range of career opportunities for those who are interested in pursuing them. Throughout our curriculum we explore a number of different career paths available in both Computing and ICT, as well as the skills and knowledge required to excel in these fields.

Careers Overview

	Career Focus
Year 7	<i>Computing Concepts</i> Computing concepts form the basis for how Computer Scientists operate. By looking at computer programmers, systems analysts, software testers and system developer roles, we see potential careers a Computer Scientist could go into. <i>Computer Networking and Cybercrime</i> We explore what a career in networking has to offer. We discuss the benefits of a networking career and uncover what each type of networking role involves. Specific roles we focus on in this unit include network administrators, technicians, engineers and analysts. These roles help to ensure that companies can access, share and store information via a computer network.
Year 8	<i>Introduction to Programming</i> Thanks to decades of innovation and refinement, computer programming is more accessible than ever and offers many professional avenues for students and potential job seekers. In this unit we look at careers in software engineering, machine learning engineering, games development and mobile app development. <i>Digital Literacy</i> ICT is used prominently across all areas of business and this unit aims to prepare our students for that. By experiencing a wide range of IT software students are able to see how administrative assistants, project managers, accountants and data analysts would complete their roles. <i>Computer Systems</i> In today's digital economy, technology has become a staple in every field. From high tech and business to healthcare and even manufacturing, there are

	plenty of computer-related jobs to choose from. We focus specifically on computer hardware engineers, IT technicians, computer support specialist and health information technology careers.
Year 9	<i>Graphics</i> The graphic design sector is a very broad employment sector with most graphic designers working for companies specialising in advertising, marketing or corporate communications, or as part of internal (in-house) design teams of large organisations such as retailers. In this unit we look at a number of different careers paths that support this heavily practical unit include advertising art director, animator, graphic designer, illustrator, production designer, theatre/television/film <i>Python Programing</i> Thanks to decades of innovation and refinement, computer programming is more accessible than ever and offers many professional avenues for students and potential job seekers. In this unit we look at careers in software engineering, machine learning engineering, games development and mobile app development. <i>Digital World</i> With artificial intelligence (AI) rapidly expanding, students review the impact that this is having upon employment opportunities. We review the careers that have been both positively and negatively impacted by the development of AI.
GCSE Computer Science	GCSE Computer Science can lead to a wide range of careers in technology, engineering and business. Some examples include Software and Programming (software developer, app developer, web developer), Cyber Security (cyber security analyst, ethical hacker, security consultant), Artificial Intelligence (data analyst, AI/machine learning engineer). There are an abundance of roles GCSE Computer Science can prepare students for and we discuss this as we cover the curriculum.
WJEC Level 1/2 Vocational Award in ICT	WJEC Level 1/2 Vocational Award in ICT is designed to develop practical digital skills alongside an understanding of how ICT is used in work places and society. This therefore provides students with a foundation for careers such as office technology (administrative assistance, data entry clerk, office administrator), IT support (IT support technician, help desk analyst, digital support technician), digital and creative industries (digital content creator, social media assistant, graphic design assistant). As we complete the various different topics throughout this course, we are able to focus on the potential career opportunities available.