



6th Form 2026 Summer Transition Work

SUBJECT:

L3 AAQ in Computing – Application Design

Welcome to the OCR Level 3 Alternative Academic Qualification (AAQ) in Computing: Application Development! This course is your gateway to a dynamic and rapidly evolving industry that underpins almost every aspect of modern life.

The computing industry in the UK is not just important; it's a leader of innovation and economic growth. From artificial intelligence and quantum computing to the thriving games industry and robust cloud services, the UK is a global leader. This sector contributes significantly to the national GDP, employs over 1.3 million people, and consistently attracts substantial investment. The demand for skilled professionals in areas like software development, cybersecurity, and data analytics is soaring, making computing a highly rewarding career path.

The L3 AAQ OCR Computing qualification is designed to equip you with the essential knowledge and practical skills needed to thrive in this vibrant landscape. The following units are mandatory:

- **Fundamentals of Application Development:** This foundational unit introduces you to the entire lifecycle of software creation, from understanding client requirements to the crucial design features that make applications user-friendly and intuitive.
- **Developing Application Software:** This unit takes you deeper into the practical side, exploring different programming language types and empowering you to code designs into working solutions. You'll learn about implementation methodologies and how applications are deployed to users.
- **Designing and Communicating UX/UI Solutions:** In today's digital world, user experience (UX) and user interface (UI) are paramount. This unit teaches you the principles of creating interfaces that are not only aesthetically pleasing but also incredibly easy to use. You'll learn tools and techniques to plan, design, and effectively communicate your UX/UI solutions, a vital skill for any aspiring developer.

Beyond these mandatory units, you choose optional units such as Website Development, where you'll learn to design and prototype responsive and accessible websites, or Game Development, diving into the captivating world of creating digital games. Each of these units is important because they build a comprehensive skillset highly valued by universities and employers. You'll develop critical thinking, problem-solving abilities, and practical application skills that are directly transferable to real-world scenarios. Whether your ambition is to progress to higher education in computer science, user experience design, data analysis, or to jump straight into an apprenticeship or employment, the L3 AAQ OCR Computing qualification provides an exceptional foundation for a successful and impactful career in the ever-expanding digital realm.

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Task	Resources or Guidance
<i>This is a learning resource for the exam units that will be covered. Select F160 or F161. Read the text and answer the questions when asked.</i> <i>This section will help prepare you for the examination content. Many students also use this site for revision. This is a fantastic resource.</i>	https://www.csnewbs.com/cambridge-advanced-national
<i>Most companies and universities expect interactive websites and mobile applications. To prepare for web design activities please go to the following websites. HTML to learn the basics and JavaScript for the more advanced. Complete as many of the set tasks as you can.</i> <i>For those who plan games design one of the best learning tools is play.org. You will learn everything such as shape creation, movement, gravity and all other elements people think are complex, well, not anymore...</i>	For HTML - www.w3schools.com/html/default.asp For JavaScript – more advanced adding to HTML www.w3schools.com/js/default.asp For online games design and creation https://q5play.org/home/
<i>Games design is still a growing industry. Part of the course can be to make a fully playable game for a client. To prepare for making games you need to install Godot. Feel free to use unity or unreal engine if you wish to follow that path. To research how to make a game in GODOT watch the following videos on YOUTUBE. Follow the video instructions to make the space shooter game.</i>	To download and install godot you need to go to the following website: https://godotengine.org/download/windows/ In YouTube you can type in Godot tutorials or type in the following link: Godot 4 Crash Course #1 - The Basics - YouTube

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"Deo Reddite Dei"

"Give back to God what belongs to God"

When planning to make a website or a game you need to plan properly. There are many different models. Watch the following videos and take notes. These will help you plan out the layout and structure of your final website or even the game; where the different menu options can be placed on the screen.	For project planning please read the following and make notes for all of the different project management models: https://isaacomputerscience.org/concepts/prog_softeng_approaches For help on how to plan the making of a website you can learn from the following YouTube instruction videos: www.youtube.com/watch?v=KuzySg7_Q7Y For help in laying out a page and links: https://www.youtube.com/watch?v=db4CoweZIJE
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Summer Project / Activity	Resources or Guidance
To create an interactive website about yourself. <i>Explain who you are, why you like computing, where you want to be when you get the qualification and what is your dream job.</i> <i>The website needs to have linked pages using CSS and JavaScript.</i>	For HTML - www.w3schools.com/html/default.asp For JavaScript – more advanced adding to HTML www.w3schools.com/js/default.asp For online games design and creation https://q5play.org/home/
To create a game that has a character, enemies, score and a high score table. The game can take any format you wish	To download and install godot you need to go to the following website: https://godotengine.org/download/windows/ In YouTube you can type in Godot tutorials or type in the following link: Godot 4 Crash Course #1 - The Basics - YouTube

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