

Computing: Application Design

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Key topics covered

F160 Fundamentals of Application Development (exam):

Discover how software applications are developed, from concept to design. Learn about the stages of app creation, the tasks they perform, and the roles involved in making them user-friendly. This course gives you key insights into the skills needed for a career in application development.

F161 Developing Application Software (exam):

Learn how to develop applications for multiple platforms. This course covers the implementation process, data security, and how developers deploy and maintain apps. Understand key considerations for building safe, functional applications across different environments.

F162 Designing and Communicating UX / UI solutions:

Great apps don't just work well—they look and feel right. This unit explores the principles of UX and UI design, focusing on how users interact with applications and how to create intuitive, engaging interfaces. You'll learn to design and communicate user-focused solutions, developing visual concepts and presenting them effectively to clients.

F163 Games Development:

Explore the fast-growing world of game development. This unit teaches you how to design and prototype games, from core mechanics to visuals and environments. Learn about game genres, build and test your own game concepts, and gain practical skills to bring your ideas to life.

F164 Website Development:

Learn how to design and build responsive, accessible websites that work across devices. This unit covers core web design principles, accessibility standards, and SEO techniques. You'll develop and test a website prototype, gaining practical skills to create user-friendly, modern web experiences.

Recommended Textbook and/or resources

You will need a PC that is connected to the internet – as long as it works, it's perfectly adequate for the course!

GameMaker – 2D video game engine



Computerphile's YouTube Channel
<https://www.youtube.com/Computerphile>

Future progression/career routes

Computing is **amazing** for your future prospects. According to the World Economic Forum, skills such as **software development**, **analytical thinking**, and **technological literacy** are among the most in demand for the future. Studying Application Development equips you with exactly these skills—preparing you for a wide range of digital careers in a rapidly evolving tech landscape.

Why Study the Subject/what students Like about it

To put it simply, here are the top 3 reasons to study Computing:

- (1) Computing is now part of **everything** we do. (2) Expertise in computing enables you to **solve complex, challenging problems**. (3) Computing offers many types of **lucrative** careers & computing jobs are here to stay. *(BONUS) We have VR!*

Why study Computing at Hellesdon High Sixth form? A couple of quotes from past students:

"Thanks for your time and helping ignite my passion which has led me to where I am today" - Patrick

"I'd just like to thank you and the team for the past 4 or 5 years (crazy) that we've had together at Hellesdon. It's been a genuine privilege to be taught by you, you've always understood me and the rest of the class so well." - Archie

Opportunities outside the classroom

Students are encouraged to keep up with current computing trends via your favourite media

Students are also encouraged to visit computer museums such as the Cambridge Centre for Computing History and Bletchley Park

