

YEAR 9 WEB DESIGN AND DEVELOPMENT

Students will gain an understanding of the interdependence of information systems through an investigation of the core technologies of the World Wide Web, including hardware components, protocols and key development languages including using HTML5, Cascading Stylesheets (CSS) and JavaScript. Working both individually and collaboratively, students will apply each stage of web development – including requirements analysis, visual design, development and evaluation – to the creation of interactive multimedia websites, which will reflect students' own particular areas of interest. Students will gain an understanding of key programming concepts as they design algorithms to embed scripted functionality, such as animation, validation and interactivity, within their web development projects.

Data and information

Students will learn to:

- Investigate how data and information are created and shared through online media.

Work collaboratively to create and communicate ideas and information online, while actively taking safety and social contexts including digital citizenship into account.

Creating Digital Solutions

Students will learn to:

- Identify real-world problems and creatively explore digital solutions
- Design the user experience of a digital system, considering criteria including functionality, accessibility, usability and aesthetics
- Design algorithms that are represented diagrammatically and in structured English
- Use a web programming language to develop and modify programs with user interfaces that make decisions and repeat actions
- Critically evaluate how well student-developed solutions and existing information systems and policies take account of future risks and sustainability and provide opportunities for innovation