

Curriculum Intent, Implementation & Impact

COURAGE CONFIDENCE CHARACTER

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els with good grades
problem solving and







Vision: We aim for our upcoming undeveloped computer science students to attain their GCSE and A levels with good grades and beyond by the time they leave Aylesford School. This enables them to be confident in computational problem solving and that they are ready to challenge their future either commercially or continuing at further and higher education.

Client Requirements & Target Audience

Implementation Intent **Impact** At the Aylesford school we believe that **GCSE Computer Science** Students leave Aylesford school having our students should have the opportunity gained an understanding of Computer Students are introduced to core principles of computer science and develop skills in problem solving and computational to follow an IT and Computing Science and having developed technical thinking, while ensuring that students new to the subject are supported appropriately. curriculum that prepares them for life in and problem-solving knowledge and Following on from more visual programming environments, programming skills are further developed using high level textual modern Britain and take advantage of skills which will support further study programming languages. opportunity this can offer them in both and their first steps in the world of work. Students develop knowledge and understanding of how technology can be used to help proactively with current issues that Britain and the wider world. Successful Computer Science are able to impact on modern society, preparing them for their next steps in today's global world Computer science skills enables our continue the subject at A Level if they so student to engage positively in school choose, whilst making a positive and in the work place. Students take an contribution to the school's Progress 8 The principles and features that characterise our approach are: active part in the design, development score. Plan and develop software using the software design life cycle and creation of new technologies to be Use a range of software design techniques such as flowcharts, pseudocode and visualisation diagrams used in the world in which they live. Develop key problem-solving skills of Abstraction, Decomposition and Algorithmic thinking Computer Science 'A Level' students should be well placed to study for a Develop key skills and practical experience in script-based programming languages and be able to design, write and The core of the curriculum subject is the degree in the subject, or to study logical debug programs to solve non-simplistic problems / technical subjects in higher education. understanding of how technology works, To be able to think creatively, innovatively, analytically, logically and critically when solving problems developed and utilise. Students develop Be able to make informed decisions on appropriate and efficient coding techniques such as sequence, selection, iteration clear and high-quality literacy and and the use of functions numeracy skills through software To be able to design, Program, evaluate and refine solutions to problems development, problem solving and evaluation skills. Creative iMedia The Cambridge Nationals in Creative iMedia will equip learners with a range of creative iMedia skills and provide opportunities At the computing department, we to develop, in context, desirable, transferable skills such as research, planning, and review, working with others and provide a broad range of skills and communicating creative concepts effectively. experiences at KS3 which are then Through the use of these skills, students will ultimately be creating fit-for-purpose creative media products. The Cambridge further developed as students enter KS4 Nationals in Creative iMedia will also challenge all students, including high attaining learners, by introducing them to and then extended to KS5. demanding material and techniques; encouraging independence and creativity and providing tasks that engage with the most taxing aspects of the National Curriculum. The principles and features that characterise our approach are: Purpose and Components of Multipage Websites Internet Connection Methods

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