

Computing (CS) 5 Year Curriculum Learning Journey



Exam technique will be the focus with a mixture of group tasks & personalised exam questions. The aim is to ensure that algorithm questions are answered using the correct structure to maximise marks. Exam technique will be the focus with a mixture of group tasks & personalised exam questions. The aim is to ensure that extended writing questions are answered using the correct structure to maximise marks. J277: OCR Computer Science (9-1) COURSE OVERVIEW Paper 2 Exam Technique Paper 1 Exam Technique Personalised Exam Preparation NC1: Develop their capability, creativity and knowledge in computer science, digital media and information NC2: Develop and apply their analytic, problem-solving design, and computational thinking skills OCR **a** minutes 50% of total GCSE 80 marks Year COMPUTER SCIENCE 2.1 - Algorithms: NC2: Develop and apply their analytic, problem-solving, design, and computational thinking skills 1.3 - Networks - topologies, protocols and layers: NC3: Understand how changes in technology affect safety, including new ways to protect their online privacy and identity, and how to identify and report a range of concerns. 1.2a - Memory & Storage: NC1: Develop their capability creativity and knowledge in computer science, digital media and information technology. GCSE OCR Year Students tie together what they have learned during the year and link the topics to famous people from the History of Computing. The aim is to use spaced retrieval and provide a clear link Year 9 Project: Students will revisit each of the topic this year and link these to famous people from hist Students prepare a 5 minute presentation. Pee assessment completed on a shared document as stu Skills: Interconnecting Data NC: 5 & 9 Skills: Research, Presenting, Careers NC: 5 & 9 Skills: Combining Applications NC: 7, 8 & 9 Command line programming revisited with a focus on solving specific scenario based tasks to promote computational thinking. Libraries & Lists are included to extend learning and evidenced through code snippets in Introduction to Cyber Security with links to both IT & CS KS4 courses. Revisiting e-Safety with a focus on malware & social engineering threats that exist online and Advanced Programming python Skills: Presenting Information NC: 8 Skills: Critical Thinking, Problem Solving NC: 2 & 3 6 Year **4**00 🚅 Skills: Interconnecting Data NC: 5 & 9 Skills: Critical Thinking, Problem Solving NC: 4 & 6 Skills: Combining Applications NC: 7.8 & 9 Photopea spreadsheets revisited with a focus on advanced function and formatting tools to solve specific problems. Learning evidence through completion of spreadsheet models to perform various tasks. Introduction to the basics of binary and why this is needed. Converting Numbers, Images & Sounds all amined. Binary Logic & Logic Gates examined. Learning evidenced through completing tasks in templates. Google Sheets 🤚 python' Skills: Modelling, Presenting Information NC: 1 & 7 Skills: Critical Thinking, Problem Solving NC: 2 & 3 Skills: Critical Thinking, Maths NC: 4 & 6 ∞ Year Skills: Presenting Information NC: 8 Skills: Combining Applications NC: 7, 8 & 9 Skills: Modelling, Presenting Information NC: 1 & 7 Digital Graphics Introduction to the basics of File Management before looking into the different aspects of eSafety. Learning evidenced through the creation of a presentation. Introduction to the basics of programming and computational thinking skills using 'Blockly'. Learning evidenced through 'Accelerated course' on 'Code.org'. Google Sheets Skills: Critical Thinking, Problem Solving NC: 2 & 3 Skills: Critical Thinking, Problem Solving NC: 2 & 3 Skills: eSafety, Presentations NC: 8 & 9 python Year : D E E-Safety

data need output with many numbers 22 knowledge input