# STOUR VALLEY COMMUNITY SCHOOL
# COMPUTER SCIENCE

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COMMUNITY SCHOOL

| HALF TERM | YEAR 7 | YEAR 8 | YEAR 9 | YEAR 10 | YEAR 11 |
|---|---|---|---|---|---|
| 1 | School Systems & Logins: Email, TEAMS, Edulink. Typing and mouse skills. Office IT Skills. E-Safety | Media: Vector Graphics programming | Python Programming using Data and Algorithms | Data Representation: Units, Binary, Hex, Characters, Images, Sound, Compression | Networking LAN's, WAN's, Hardware, Client Server, Topologies, Protocols. The Internet. |
| 2 | Programming Essentials: Part 1 (Scratch) | Computer Systems: General Purpose & Dedicated. | Data Representations: Audiovisual, Sound and Images. | Python Programming 1 | Mock Revision Mock Exams |
| 3 | Programming Essentials: Part 1 (Scratch) | Data: The Binary Representation Binary & Instructions | Cybersecurity: Network threats and how to prevent them | Computer Systems: CPU, Memory, Performance, Secondary Storage, Systems Software | Testing, Design and IDE's |
| 4 | Modelling Data: Introduction to Excel Spreadsheets. | Web Development: Intro to HTML using Notepad++ | Data: Cryptography, Codes and Ciphers | Python Programming 2 | Python Programming 4 |
| 5 | Programming Essentials: Part 2 (Scratch) | Introduction to Python Programming: Sequencing, Selection, and Iteration. | Physical Computing: Microbit programming. | Issues: Ethical, Cultural, Environmental Legislation Open Source/Proprietary Software | GCSE Revision OCR J277 Computer Science |
| 6 | Media and Digital Messaging. E-Safety | App Development E-Safety | Digital Skills Recap: Excel, Word, PPT E-Safety | Python Programming 3 | GCSE Exams |
| How can learning be extended? | Further use of Scratch & Code.org | Python Online Web Development Online | Python Online | Craig n Dave (Youtube) https://www.advanced-ict.info/home/about.html | Craig n Dave (Youtube) https://www.advanced-ict.info/home/about.html |