

## KS4 COMPUTER SCIENCE OVERVIEW 2022-23

|               | <b>Year 10 CS</b>  | <b>Year 11 CS</b>   |
|---------------|--|---|
| <b>Term 1</b> | <p style="text-align: center;">OCR Computer Science</p> <p style="text-align: center;"><b>J277 /01</b></p> <p style="text-align: center;"><u>Introduction to the course</u></p> <ul style="list-style-type: none"> <li>• Systems Architecture</li> <li>• Memory</li> <li>• Storage</li> </ul> <p style="text-align: center;"><b>Homework—CraigNDave flipped learning and Cornell notes</b></p> <p style="text-align: center;"><b>Assessment via CraignDave</b></p>   | <p style="text-align: center;">OCR Computer Science</p> <p style="text-align: center;"><b>J277 /02</b></p> <ul style="list-style-type: none"> <li>• Algorithms</li> <li>• Programming techniques</li> <li>• Producing robust programs</li> </ul> <p style="text-align: center;"><b>Homework—CraigNDave flipped learning and Cornell notes</b></p> <p style="text-align: center;"><b>Assessment via CraignDave</b></p>   |
| <b>Term 2</b> | <p style="text-align: center;">OCR Computer Science</p> <p style="text-align: center;"><b>J277 /01</b></p> <ul style="list-style-type: none"> <li>• Wired and wireless networks</li> <li>• Network topologies</li> <li>• protocols and layers</li> <li>• legal, moral, environmental and ethical implications of computing</li> </ul> <p style="text-align: center;"><b>Homework—CraigNDave flipped learning and Cornell notes</b></p> <p style="text-align: center;"><b>Assessment via CraignDave</b></p> | <p style="text-align: center;">OCR Computer Science</p> <p style="text-align: center;"><b>J277 /02</b></p> <p style="text-align: center;"><u>Practical Investigation</u></p> <p style="text-align: center;"><u>CCA 20 Hours</u></p> <ul style="list-style-type: none"> <li>• Programming techniques</li> <li>• Analysis</li> <li>• Design</li> <li>• Development</li> <li>• Testing and evaluation and conclusions.</li> </ul> <p style="text-align: center;"><b>Homework—CraigNDave flipped learning and Cornell notes</b></p> <p style="text-align: center;"><b>Assessment via CraignDave</b></p> |

|                      |   |   |
|----------------------|---|---|
| <p><b>Term 3</b></p> | <p>OCR Computer Science</p> <p><b>J277 /01</b></p> <ul style="list-style-type: none"> <li>• System security</li> <li>• System Software</li> <li>• Ethical, Legal, Cultural &amp; Environmental Concerns</li> </ul> <p><b>Homework—CraigNDave flipped learning and Cornell notes</b></p> <p><b>Assessment via CraignDave</b></p>   | <p>OCR Computer Science</p> <p><b>J277 /02</b></p> <ul style="list-style-type: none"> <li>• Computational logic</li> <li>• Translators and facilities of languages</li> <li>• Data representation</li> </ul> <p><b>Homework—CraigNDave flipped learning and Cornell notes</b></p> <p><b>Assessment via CraignDave</b></p>                                       |
| <p><b>Term 4</b></p> | <p>OCR Computer Science</p> <p><b>J277 /01</b></p> <p>Completing revision booklet</p> <p>Homework—CraigNDave flipped learning and Cornell notes</p> <p><b>Assessment via CraignDave</b></p> <p><b>Mock exams</b></p>  | <p>OCR Computer Science</p> <p><b>J277 /02</b></p> <ul style="list-style-type: none"> <li>• Tests on ClickSchool</li> <li>• Tests on CraigNDave</li> <li>• Tests on Isaac Computing</li> <li>• Past papers</li> <li>• Talking past exam</li> </ul> <p><b>Homework—CraigNDave flipped learning and Cornell notes</b></p> <p><b>Assessment via CraignDave</b></p> |
| <p><b>Term 5</b></p> | <p>OCR Computer Science</p> <p><b>J277 /03-04</b></p> <p><b><u>Practical Introduction</u></b></p> <ul style="list-style-type: none"> <li>• Programming techniques</li> <li>• Analysis</li> <li>• Design</li> <li>• Development</li> <li>• Testing and evaluation and conclusions.</li> </ul> <p><b>Homework—CraigNDave flipped learning and Cornell notes</b></p> <p><b>Assessment via CraignDave</b></p> | <p>OCR Computer Science</p> <p><b>EXAM</b></p>  |
| <p><b>Term 6</b></p> | <p><b>Homework—CraigNDave flipped learning and Cornell notes</b></p> <p><b>Assessment via CraignDave</b></p>  | <p><b>STUDY LEAVE</b></p>   |