













## Year 8 computer Science June 2018 Summer Exam

### Check List

Revision Resources on: hand-in, BBC bitesize & GCSEPod

| Unit/Topic   | How do you feel about this topic?   |   |   |
|--|---|---|---|
| 8.1 Hardware   |    |    |    |
| <ul style="list-style-type: none"> <li>• Understand what a computer is and how they can come in various forms.</li> <li>• Understand how computers receive commands and data</li> <li>• Understand what 'processing' means</li> <li>• Understand how computers can output information</li> <li>• Understand how it processes inputs to produce outputs.</li> <li>• Understand that a computer is made up of a range of components.</li> <li>• Understand the purpose / function of these components</li> <li>• Understand the role of the CPU, RAM and Hard Drive</li> <li>• Understand how the CPU, RAM and Hard Drive work together.</li> <li>• Understand how the input and output devices work with the CPU</li> <li>• Understand what the CPU is, how it works and how its performance is measured</li> </ul> |   |   |   |
| 8.2 Data Representation  |  |  |  |
| <ul style="list-style-type: none"> <li>• Understand how to convert denary to binary</li> <li>• Understand how to convert binary to denary</li> <li>• Understand how to Add in binary</li> <li>• Understand how to convert binary to ASCII</li> <li>• Understand how to convert binary to Hex</li> <li>• Understand how an image is represented in a computer</li> <li>• Understand how to Convert binary numbers to images</li> <li>• Understand how computers represent sound waves</li> </ul>  |   |   |   |
| 8.3 Computational thinking   |  |  |  |
| <ul style="list-style-type: none"> <li>• Understand decomposition</li> <li>• Understand pattern recognition</li> <li>• Understand abstraction</li> <li>• Understand pseudocode</li> <li>• Understand flowchart</li> </ul>  |   |   |   |
| 8.5 Python Turtle  |  |  |  |
| <ul style="list-style-type: none"> <li>• Understand how to draw basic shapes using python turtle</li> <li>• Understand how to use loops to draw shapes</li> <li>• Understand how to gather response from the user (input)</li> <li>• Understand how to use variables for input</li> </ul>  |   |   |   |