**Year 10 Term 5**

**3 lessons each week**

|  |  |  |
| --- | --- | --- |
| **Week** | **Theory Content** | **Programming Content** |
| **Weeks 1 to 6** |  | **TOPIC: Practical Programming**  Progressing with challenges; specific issues with programming are identified, clarified & improved.  Previous challenges are:   * Coding binary to dec and dec to binary converter. Extension for hex to bin, bin to hex, hex to dec, dec to hex. * Coding Rock, Paper, Scissors game. * Coding dice rolling game. * Recoding Distance, Speed, Time calculator using subroutines. * Recoding number base converter program using subroutines.   New challenges (see attached files):   * Working with nested lists. * Reading and writing data to text files and csv files.   Students have previously been sent help videos by email and other details sent through SMHW.  Students may contact jwhight by email to seek help with any task.  Students may use online web resources for Python such as Runestone FOPP in order to improve their programming technique. |
| **Week 1** | Review of test completed before the holiday. Answer sheet available on request. |  |
| **Week 2 to 4** | **Topic: The processor and RAM.**  Content based on attached slideshow #9. |  |
|  |  |  |
|  |  |  |
|  |  |  |