Student Name : _____ Student ID : _____

1. Word Search Generation

1. Store a list of words on specific subjects (at least two categories.) /2

   Words should be stored in a 1D or 2D array. Student should be able to explain why they stored the categories the way they have.

2. Words **randomly** inserted horizontally (40%), vertically (40%) and diagonally (20%) /1

   Correctly Insert Words Horizontally and Vertically /3

   Correctly Insert Words Diagonally /4

   Student should be able to explain how their program inserts words into the grid.
   Program should ensure that word fits inside the bounds of the array

3. Ensure words do not overwrite one another /5

   For 5 marks the program should be able to insert words correctly into grid without any overlapping. Should allow for words crossing over each other.
   Student should be able to explain exactly how the program does this.

2. Word Search Game

1. Welcome user to the program /1
2. Present user with choice of categories to pick from (e.g. fruit, planets) /1
3. (In a loop) Allow user to guess words they see in the grid /2
4. Highlight or remove correctly guessed words from the grid /4
5. Show message to user when time runs out / they have won /2

3. Coding

Programming Expertise /3 Commenting / Formatting /2

How impressive is the student's coding? How impressive is their program? Ask them to show you the most complex or impressive part of their implementation etc.

/30