



GCE AS/A level

1102/01

**COMPUTING CG2
AS EXTENDED TASK**

For submission in May 2014

GUIDANCE FOR CANDIDATES

You are expected to:

1. Read and analyse the given scenario and develop a solution which may be enhanced by making any assumptions you see fit. Any assumptions you make should be clearly explained and justified in your documentation.
2. Produce a solution which **MUST** include original coding. Solutions which do not include original coding will not be acceptable.
3. Produce a fully documented solution to the given problem in accordance with the requirements listed in CG2 (pages 17 - 19 and pages 41 - 51 of the specification). Credit will be given for the quality of your solution.



Spelling Bee

Schools are aware of the need to raise standards in literacy. They are adopting a range of strategies and interventions to improve pupils' reading ages and their ability to spell correctly.

The head teacher of Greenparks School has decided that she would like to introduce a competitive approach to improving standards of spelling. There will be a weekly spelling test for pupils in Years 3 to 6 and at the end of each half term there will be a merit assembly when the children who have made good progress will be rewarded.

Each week the teachers will give the pupils a list of ten words to learn for a spelling test on Friday morning. In addition to the word, the list includes a definition of each word.

The head teacher is aware that the teachers already have a large workload and would like to introduce a system that could automatically mark and record pupils' results week by week.

She would like each teacher to be able to enter the ten words into the system each week. The pupils would then type each word into the computer in response to the definition being displayed. The system would check the answer, calculate their score and save the children's scores.

The system should score each of the ten words using the following rules:

- If the pupil's spelling is correct - 2 marks
- If there is a minor error - 1 mark
- If there is a major error - 0 mark.

The head teacher has commissioned you to create a computer based system which will:

- Allow users to log in either as staff or pupil
- Allow staff to add words and definitions to the system
- Display a ten question spelling test
- Calculate and display a pupil's score at the end of the test
- Store pupils' scores
- Provide analysis of pupil progress.

Spelling Test - 3rd February 2012

1. hectare - unit of area
2. active - being busy
3. amaze - surprise
4. bound - leap and jump
5. cavern - a large cave
6. difficult - hard to do
7. frozen - turned to ice
8. garage - building for a car
9. jaguar - large cat
10. lemonade - fizzy drink