GCSE Level 2 Mathematics Developer Exercise

Before you begin, please ensure that you have answered **all** the questions on the application form.

This assessment exercise gives you the opportunity to show your creativity, innovation and subject knowledge in relation to preparing assessment materials.

Please make sure you read the task and that you are prepared to use the template provided below the task before you start.

# Task

Using the template provided draft 4 GCSE mathematics examination questions, which can be made up of 1 or more items, to assess at least three content areas of your choice from the Department for Education (DfE) subject criteria: <https://www.gov.uk/government/publications/gcse-mathematics-subject-content-and-assessment-objectives>

You must:

1. Design 4 questions, please ensure the following question types are included. One question may cover more than one of the types:
   1. Low level of demand question (Grades 1-3)
   2. Non-calculator question
   3. A question which has more than one method to solve it. Please ensure the alternative method(s) are in the mark scheme.
   4. High tariff question, this could be scaffolded or unstructured (5-6 marks)
   5. High level of demand question (Grades 7-9)
2. Provide a detailed mark scheme for each question/item including:
   1. The answer
   2. Mark allocations
   3. Any part marks and guidance required
3. Provide an **assessment grid** that includes for each question/item:
   1. Subject content area(s) being assessed
   2. Targeted level of demand (Grades 1-3, Grades 4-6 or Grades 7-9)
   3. Targeted Assessment Objective(s)
   4. The allocation of marks to each content area
   5. A brief rationale for the decisions you made when designing the question (e.g. why you may have selected a MCQ and how it acts as a discriminating question).

The exercise should be completed electronically and attached to your application via the Portal.

|  |
| --- |
| **Your Name:** <<insert your name>> |

**Examination Questions**

**Q1: <<insert your question here>>**

**[x]**

**Mark scheme**

|  |  |  |  |
| --- | --- | --- | --- |
| **Question** | **Answer** | **Marks / AO targeted** | **Part marks and guidance** |
| **1** |  |  |  |

|  |
| --- |
| **Provide a rationale for the question/item design** (e.g. why you may have selected a MCQ and how it acts as a discriminating question): |
|  |

**Q2: <<insert your question here>>**

**[x]**

**Mark scheme**

|  |  |  |  |
| --- | --- | --- | --- |
| **Question** | **Answer** | **Marks / AO targeted** | **Part marks and guidance** |
| **2** |  |  |  |

|  |
| --- |
| **Provide a rationale for the question/item design** (e.g. why you may have selected a MCQ and how it acts as a discriminating question): |
|  |

**Q3: <<insert your question here>>**

**[x]**

**Mark scheme**

|  |  |  |  |
| --- | --- | --- | --- |
| **Question** | **Answer** | **Marks / AO targeted** | **Part marks and guidance** |
| **3** |  |  |  |

|  |
| --- |
| **Provide a rationale for the question/item design** (e.g. why you may have selected a MCQ and how it acts as a discriminating question): |
|  |

**Q4: <<insert your question here>>**

**[x]**

**Mark scheme**

|  |  |  |  |
| --- | --- | --- | --- |
| **Question** | **Answer** | **Marks / AO targeted** | **Part marks and guidance** |
| **4a** |  |  |  |
| **4b** |  |  |  |
| **…** |  |  |  |

|  |
| --- |
| **Provide a rationale for the question/item design** (e.g. why you may have selected a MCQ and how it acts as a discriminating question): |
|  |

**Assessment Grid**

Complete this assessment grid for the questions you have created above.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Question / Item** | **Marks allocated** | **Subject content area(s)** | **Target grade range** | **Assessment Objective** |
| **1** |  |  |  |  |
| **2** |  |  |  |  |
| **3** |  |  |  |  |
| **4a** |  |  |  |  |
| **4b** |  |  |  |  |
| **…** |  |  |  |  |