**YEAR 11 INTO 12 SUMMER TRANSITION TASK**

***Subject: GCE Chemistry A***

***Qualification/Level: Advanced Level***

***Examination Board: AQA***

The following task is to be completed and brought to your first A level Chemistry lesson or e-mailed to Mrs Boyle (emma.boyle@oldburywells.com).

**The Task**

*You will need to make a presentation on a topic that features heavily in A Level Chemistry. The topic is called ‘****The Mole****’.*

*You will need to do some background reading and you should also use any internet sites that you come across (you should reference any books used and list any websites at the end of the presentation)*

*Your PowerPoint should be between 5 to 10 slides.*

*You must include the following:*

• *Definitions*

• *Mole Formulae*

• *Example calculations*

• *Examples of relevance to syllabus areas (see specification on AQA website)*

• *Exam style question with answer (past paper questions can be found on the AQA website.*

*You can also include any other relevant information.*

**How the work produced will fit into subsequent work and the specification as a whole**

*‘The Mole’ features heavily in A Level Chemistry. It will be necessary to carry out calculations involving the mole in many units across AS and A2 Chemistry, particular calculations involving titrations and determining the mass of a substance, gas volume, solution volume and solution concentration.*

**How the work should be presented**

*PowerPoint presentation.*

**How the work will be assessed**

*The PowerPoint presentation and information leaflet will be assessed by the teacher on the criteria listed below.*

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| --- | --- | --- | --- | --- |
|  | **Knowledge & Understanding** | **Application** | **Analysis** | **Evaluation** |
| **Part One -** *Clear definition and explanation of the mole & stating the formulae for calculating moles in a solid substance, in an aqueous solution and in a gas (including units)* | **10 marks** |  |  |  |
| **Part Two -** *Worked examples of mole calculations & worked example of an exam style question using the mole* |  | **10 marks** |  |  |
| **Part Three -** *How the ‘mole’ is relevant to the AS/A2 Chemistry course*  *& any other relevant information on the mole* |  |  | **5 marks** | |