

Atomic Science



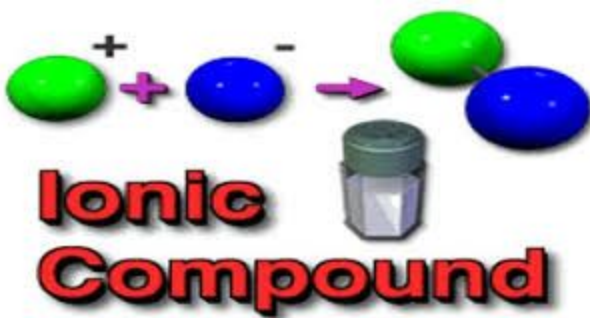
In this assessment you will be assessed on your understanding of the Atomic structure of different elements in the periodic table. Given below are the different steps that you will need to complete in the assessment.

Step 1: Select two elements from the periodic table, one that can form an anion and the other that can form a cation. Draw the Atomic structure of the elements.

Note: Please make sure that you choose elements that can form ionic compounds.



Step 2: Explain in detail whether your two elements would form an anion or a cation with reason.



Step 3: Explain how the two elements would combine to form an ionic compound and also its chemical formula.

Step 4: Write down a balanced chemical equation for the above reaction.

AT: Precisely show the Atomic structure of the two elements. These elements should be capable of forming ions. (Step 1)

ABOVE: Achieved + in-depth explanation of the formation of the two ions. (Step 1+ Step 2)

BEYOND: The above two criteria +an in-depth explanation with diagram about the formation of ionic compound between the two elements and a balanced equation.(Step 1+ Step2 + Step 3+ Step 4)

TAAB

Atomic structure	You have shown some understanding of atomic structure	You have described and compared the structure of atoms of different elements	You have demonstrated understanding of aspects of ion formation.	You have demonstrated an in-depth understanding of the formation of ions and Ionic compounds.
Time Management	You have not submitted the document by the due date	You have not submitted the document by the due date	You have submitted the document by the due date	You have submitted the document by the due date
Overall	Working Towards curriculum level	Working AT curriculum level	Working ABOVE curriculum level	Working BEYOND curriculum level