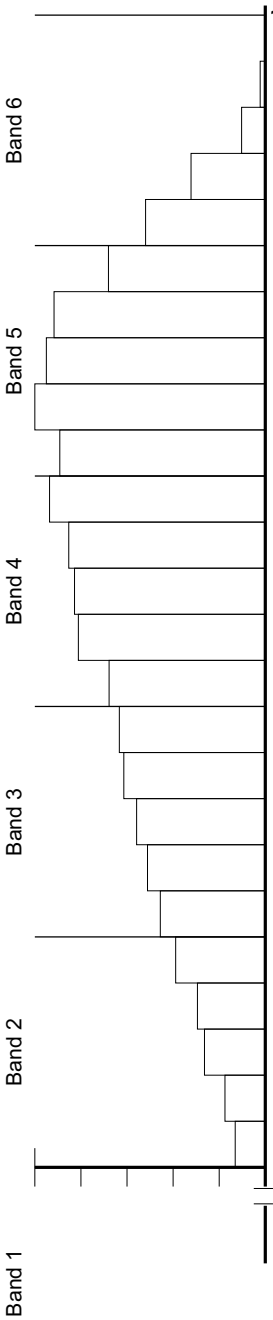
2017 Course Report

Chemistry

State Distribution | **The typical performance in this band:**



100–90 (Band 6)

Demonstrates an extensive knowledge and understanding of the concepts of the chemistry course content including context, prescribed focus areas and domain. Displays an outstanding ability to describe and explain chemistry concepts, including abstract ideas, clearly and accurately, and to apply the concepts to unfamiliar situations. Applies a high level of critical thinking skills in developing appropriate solutions to problems involving a long sequence of related tasks. Analyses, evaluates and extrapolates chemical data effectively, identifies complex relationships, quantifies explanations and descriptions, and synthesises information to draw conclusions. Communicates succinctly, logically and sequentially using a variety of scientific formats. Demonstrates a high level ability to design an experimental procedure.

90–80 (Band 5)

Demonstrates a thorough knowledge and understanding of the concepts of the chemistry course content including context, prescribed focus areas and domain. Effectively communicates a detailed understanding of chemistry concepts using appropriate chemistry terminology and scientific formats, and applies the concepts to unfamiliar situations. Analyses information given in written, tabular, graphical and diagrammatic forms and relates this to other relevant information. Displays competence in manipulating equations to solve problems involving a number of steps. Demonstrates a thorough knowledge of the use of appropriate experimental procedures.

80–70 (Band 4)

Demonstrates a sound knowledge and understanding of the concepts of the chemistry course content including context, prescribed focus areas and domain. Describes concepts and information clearly in written, graphical and diagrammatic forms such as structural and electron-dot formulae, and applies these concepts in familiar situations. Demonstrates a broad ability to carry out calculations and/or substitute into equations, to use relevant symbols and units when manipulating chemical data including stoichiometric data, and to construct balanced chemical equations. Displays proficiency in selecting relevant data from information given in written, tabular, graphical and diagrammatic form. Describes correct apparatus for a particular chemical measurement and has an adequate understanding of experimental methodology.

70–60 (Band 3)

Demonstrates a basic knowledge and understanding of the concepts of the chemistry course content including context, prescribed focus areas and domain. Uses simple chemistry definitions, terms, diagrams and graphs to communicate understanding of chemistry concepts. Substitutes data from information given in written, tabular, graphical and diagrammatic form, and manipulates basic chemical data including stoichiometric data.

60–50 (Band 2)

Demonstrates a limited knowledge and understanding of the chemistry course content including context, prescribed focus areas and domain. Recalls elementary terminology and formulae related to some areas of chemistry. Makes simple substitutions of data in chemical calculations. Describes simple safety precautions in experimental procedure.

50–0 (Band 1)

A mark in this band indicates that the student has achieved below the minimum standard expected.

The candidature of this course was 10,974.