Grade	AO1:	AO2:	AO3:
A*	Demonstrates exceptional performance for the A grade descriptors.	Demonstrates exceptional performance for the A grade descriptors.	Demonstrates exceptional performance for the A grade descriptors.
A / B	a) demonstrate detailed knowledge and understanding of most principles, concepts and facts from the specification b) select relevant information from the specification b) show understanding of most principles, concepts and facts from the specification; c) organise and present information clearly in appropriate forms using scientific terminology. d) write equations for most chemical reactions.	a) apply principles and concepts in familiar and new contexts involving several steps in the argument b) describe significant trends and patterns shown by complex data presented in tabular or graphical form; interpret phenomena with few errors; and present arguments and evaluations clearly c) comment critically on statements, conclusions or data d) evaluate critically any statements, conclusions or data e) carry out accurately most of the calculations specified; and apply the principles of statistical analysis when directed f) carry out accurately complex calculations specified g) carry out extended calculations, with little or no guidance, and demonstrate good understanding of the underlying relationships between physical quantities; h) translate successfully data that is presented as prose, diagrams, drawings, tables or graphs from one form to another i) use chemical equations in a range of contexts j) select a wide range of facts, principles and concepts from the specification k) link together appropriate facts principles and concepts from different areas of the specification.	a) devise and plan experimental and investigative activities, selecting appropriate techniques b) demonstrate safe and skilful practical techniques and comment effectively on ethical issues c) make observations and measurements with appropriate precision and record these methodically d) interpret, explain, evaluate and communicate the results of their own and others' experimental and investigative activities, in appropriate contexts e) use an appropriate statistical technique to assess the validity of a hypothesis.
C / D	a) demonstrate reasonable knowledge and understanding of most principles, concepts and facts from the specification b) select the majority of relevant information from the specification b) show understanding of most principles, concepts and facts from the specification; c) organise and present information clearly in	a) apply some principles and concepts in familiar and new contexts involving a few steps in the argument b) describe some trends and patterns shown by complex data presented in tabular or graphical form; interpret phenomena with some errors; and present arguments and evaluations logically c) comment on statements, conclusions or data d) evaluate any statements, conclusions or data e) carry out most of the calculations specified; and apply the principles of statistical analysis when directed	a) devise and plan experimental and investigative activities, selecting appropriate techniques b) demonstrate safe and skilful practical techniques and comment on ethical issues c) make observations and measurements and record these methodically d) interpret, explain, evaluate and communicate the results of their own and

	appropriate forms using scientific terminology. d) write equations for most chemical reactions.	f) carry out complex calculations specified for A level g) carry out extended calculations, with some guidance, and demonstrate an understanding of the underlying relationships between physical quantities; h) translate data that is presented as prose, diagrams, drawings, tables or graphs from one form to another i) use chemical equations in a range of contexts j) select a range of facts, principles and concepts from the specification k) Link together appropriate facts principles and concepts from different areas of the specification.	others' experimental and investigative activities, in appropriate contexts e) use an appropriate statistical technique
E	a) demonstrate knowledge and understanding of some principles, concepts and facts from the specification b) select some relevant information from the specification b) show understanding of some principles and facts from the specification; c) present information using basic terminology from the specification. d) write equations for some chemical reactions.	a) apply given principles or concepts in familiar and new contexts involving a few steps in the argument b) describe some trends or patterns shown by data presented in tabular or graphical form b) describe, and provide a limited explanation of, trends or patterns shown by complex data presented in tabular or graphical form c) identify, when directed, inconsistencies in conclusions or data c) provide basic explanations and interpretations of some phenomena, presenting very limited evaluations; d) carry out some steps within calculations d) carry out routine calculations, where guidance is given; e) translate data successfully from one form to another, in some contexts e) use some chemical equations f) select some facts, principles and concepts from the specification g) put together some facts, principles and concepts from different areas of the specification.	a) devise and plan some aspects of experimental and investigative activities b) demonstrate safe practical techniques and comment on ethical issues c) make observations and measurements and record them d) interpret, explain and communicate some of the results of their own and others' experimental and investigative activities, in appropriate contexts e) use a given statistical technique.

Biology only
Chemistry only
Physics only