Science in Practice 2019

Highlighted syllabus standards

	Standard A	Standard B	Standard C	Standard D	Standard E
Knowing and understanding	The student work has the following characteristics:	The student work has the following characteristics:	The student work has the following characteristics:	The student work has the following characteristics:	The student work has the following characteristics:
	• comprehensive description and explanation of scientific facts, concepts and phenomena in a range of situations including some that are unfamiliar	• detailed description and explanation of scientific facts, concepts and phenomena in familiar situations	• description and explanation of scientific facts, concepts and phenomena in familiar situations	• description of simple scientific facts, concepts and phenomena	• statements about simple scientific facts and phenomena
	• coherent description and explanation of scientific skills, techniques, methods and risks.	• detailed description and explanation of scientific skills, techniques, methods and risks.	• description and explanation of scientific skills, techniques, methods and risks.	• description of scientific skills, techniques, methods and risks.	• statements about simple scientific skills, techniques, methods and risks.
Analysing and applying	The student work has the following characteristics:	The student work has the following characteristics:	The student work has the following characteristics:	The student work has the following characteristics:	The student work has the following characteristics:
	• comprehensive analysis of data, information, situations and relationships	• detailed analysis of data, information, situations and relationships	• analysis of data, information, situations and relationships	• description of data, information, situations and relationships	• statements about simple data, information, situations and relationships
	• application of scientific knowledge, understanding and skills to generate justified solutions in a range of situations including some that are unfamiliar	• application of scientific knowledge, understanding and skills to generate informed solutions in familiar situations	• application of scientific knowledge, understanding and skills to generate solutions in familiar situations	• partial application of simple scientific knowledge, understanding and skills	• superficial application of simple scientific knowledge, understanding and skills
	• clear and coherent communication using scientific terminology, diagrams, conventions and symbols.	• effective communication using scientific terminology, diagrams, conventions and symbols.	• communication using scientific terminology, diagrams, conventions and symbols.	• basic communication using aspects of scientific terminology, diagrams, conventions and symbols.	• basic communication using everyday language.

	Standard A	Standard B	Standard C	Standard D	Standard E
Planning and evaluating	The student work has the following characteristics: • considered planning of scientific activities and investigations • systematic evaluation of the reliability and validity of plans and procedures, and data and information • valid conclusions, decisions and recommendations justified with scientific evidence.	The student work has the following characteristics: • effective planning of scientific activities and investigations • detailed evaluation of the reliability and validity of plans and procedures, and data and information • informed conclusions, decisions and recommendations linked to scientific evidence.	The student work has the following characteristics: • planning of scientific activities and investigations • evaluation of the reliability and validity of plans and procedures, and data and information • conclusions, decisions and recommendations using scientific evidence.	The student work has the following characteristics: • planning of aspects of scientific activities and investigations • statements about the reliability and validity of simple plans and procedures, and data and information • conclusions, decisions and recommendations.	The student work has the following characteristics: • statements about aspects of scientific activities and investigations • statements about aspects of reliability and validity • statements of personal opinion.

Key: Cognition Qualifier