Planning a progression of learning

Throughout the programme, students should engage with the curriculum and be expected to demonstrate their understanding at increasing levels of sophistication. The range of assessed skills, techniques, and concepts, as well as the complexity of their application, must increase as students progress through the programme.

Year 1 In order to reach the aims of sciences, students should be able to:		Year 3 In order to reach the aims of sciences, students should be able to:		Year 5 In order to reach the aims of sciences, students should be able to:				
Objective A: Knowing and understanding								
i.	outline scientific knowledge	i.	describe scientific knowledge	i.	explain scientific knowledge			
ii.	apply scientific knowledge and understanding to solve problems set in familiar situations and suggest solutions to problems set in unfamiliar	ii. iii	apply scientific knowledge and understanding to solve problems set in familiar and unfamiliar situations analyse information	ii. iii	apply scientific knowledge and understanding to solve problems set in familiar and unfamiliar situations analyse and evaluate			
iii.	situations interpret information to make scientifically supported judgments.		to make scientifically supported judgments.		information to make scientifically supported judgments.			
Objective B: Inquiring and designing								
i.	outline an appropriate problem or research question to be tested by a	i.	describe a problem or question to be tested by a scientific investigation	i.	explain a problem or question to be tested by a scientific investigation			
ii.	scientific investigation outline a testable prediction using scientific	ii.	outline a testable hypothesis and explain it using scientific reasoning	ii.	formulate a testable hypothesis and explain it using scientific reasoning			
iii.	reasoning outline how to manipulate the variables, and outline how data will be collected	iii.	describe how to manipulate the variables, and describe how data will be collected	iii.	explain how to manipulate the variables, and explain how data will be collected			
iv.	design scientific investigations.	iv.	design scientific investigations.	IV.	investigations.			

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Objective C: Processing and evaluating								
i. present collect transformed of	cted and i. data	present collected a transformed data	nd i.	present collected and transformed data				
ii. interpret data results using reasoning	a and outline ii. scientific	interpret data and results using scient reasoning	describe ii. ific	interpret data and explain results using scientific reasoning				
iii. discuss the va prediction ba outcome of th investigation	lidity of a iii. sed on the ne scientific	discuss the validity hypothesis based c outcome of the scie investigation	of a iii. on the entific	evaluate the validity of a hypothesis based on the outcome of the scientific investigation				
iv. discuss the va method	alidity of the iv.	discuss the validity method	of the iv.	evaluate the validity of the method				
v. describe implete extensions to	rovements or v. the method.	describe improvem extensions to the n	nents or v. nethod.	explain improvements or extensions to the method.				
Objective D: Reflecting on the impact of science								
i. summarize th which science and used to a specific probl	e ways in i. e is applied ddress a em or issue	describe the ways i science is applied a used to address a s problem or issue	n which i. Ind pecific	explain the ways in which science is applied and used to address a specific problem or issue				
ii. describe and the various in of the use of s its application specific probl	summarize ii. nplications science and n in solving a em or issue	discuss and analyse various implication the use of science a application in solvi specific problem of	e the ii. is of and its ng a r issue	discuss and evaluate the various implications of the use of science and its application in solving a specific problem or issue				
iii. apply scientif effectively	ic language iii.	apply scientific land effectively	guage iii.	apply scientific language effectively				
iv. document the others and so information u	e work of iv. ources of used.	document the wor others and sources information used.	k of iv. of	document the work of others and sources of information used.				