

Sciences Yr 1 (6th Grade)

Year 1 Objectives/Unit	Astronomy	Energy Resources	Scientific Method	Matter (Chemistry)	Weather and Climate	Science Fair	Watersheds
Summative Assessments	Astronomy unit Test Scale Models of the solar system Tide Graphing Task Daylight Graphing Task Planet Paragraph	Task 1: Energy Resources Paragraph/Poster/Video Task 2: IB Energy Unit Test	Task 1: IB Scientific Method Unit Test (A) Task 2: The Candy Experiment (Criteria B and C) Task 3: Metric measurement lab (C)	Task 1: IB Chemistry (Matter) Unit Test	Task 1: IB Weather Unit Test	IB Science Project	Task 1: Report of Stream Health
Criterion A: Knowing and understanding							
i. outline scientific knowledge	X	X	X	X	X		
ii. apply scientific knowledge and understanding to solve problems set in familiar situations and suggest solutions to problems set in unfamiliar situations	X	X	X	X	X		
iii. interpret information to make scientifically supported judgments.	X	X	X	X	X		
Criterion B: Inquiring and designing							
i. outline an appropriate problem or research question to be tested by a scientific investigation			X			X	
ii. outline a testable prediction using scientific reasoning			X			X	
iii. outline how to manipulate the variables, and outline how data will be collected			X			X	
iv. design scientific investigations.			X			X	
Criterion C: Processing and evaluating							
i. present collected and transformed data	X		X			X	
ii. interpret data and outline results using scientific reasoning	X		X			X	
iii. discuss the validity of a prediction based on the outcome of the scientific investigation	X		X			X	
iv. discuss the validity of the method	X		X			X	
v. describe improvements or extensions to the method.	X		X			X	
Criterion D: Reflecting on the impacts of science							
i. summarize the ways in which science is applied and used to address a specific problem or issue	X	X			X		X
ii. describe and summarize the various implications of using science and its application in solving a specific problem or issue	X	X			X		X
iii. apply scientific language effectively	X	X			X		X
iv. document the work of others and sources of information used.	X	X			X		X

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Sciences Yr 2 (7th Grade)

Year 3 Objectives/Unit	Sciences Yr 2 (7th Grade)				
Year 3 Objectives/Unit	Ecology	Cells	Cell Processes	Evolution	Classification
Summative Assessments	Deer Population Project	Unit Test - A	Unit Test - A	Paper Pet Lab	Classification foldable
Criterion A: Knowing and understanding					
i. describe scientific knowledge	X	X	X		X
ii. apply scientific knowledge and understanding to solve problems set in familiar and unfamiliar situations	X	X	X		X
iii. analyse information to make scientifically supported judgments.	X	X	X		X
Criterion B: Inquiring and designing					
i. describe a problem or question to be tested by a scientific investigation			X	X	
ii. outline a testable hypothesis and explain it using scientific reasoning			X	X	
iii. describe how to manipulate the variables, and describe how data will be collected			X	X	
iv. design scientific investigations.			X	X	
Criterion C: Processing and evaluating					
i. present collected and transformed data			X	X	
ii. interpret data and describe results using scientific reasoning			X	X	
iii. discuss the validity of a hypothesis based on the outcome of the scientific investigation			X	X	
iv. discuss the validity of the method			X	X	
v. describe improvements or extensions to the method.			X	X	
Criterion D: Reflecting on the impacts of science					
i. describe the ways in which science is applied and used to address a specific problem or issue				X	X
ii. discuss and analyse the various implications of using science and its application in solving a specific problem or issue				X	X
iii. apply scientific language effectively				X	X
iv. document the work of others and sources of information used.				X	X

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