ROCKRIDGE SECONDARY SCHOOL

Subject Group Overview: Sciences

SCIENCES — YEAR 3

UNIT	KEY CONCEPT	RELATED CONCEPT(S)	GLOBAL CONTEXT	STATEMENT OF INQUIRY (BC BIG IDEA)	SUMMATIVE(S)	OBJECTIVES	ATLs
Biology: Cells and Immunology	Systems	Form Function	Scientific and Technical Innovation	Life processes are performed at the cellular level.	Unit Test and Checkpoint	A: i, ii, iii	Communication: Language Thinking: Transfer Research: Information Literacy
					Fermentation Lab	B:i, ii, iv	Communication: Language Thinking: Critical-Thinking, Creative-Thinking
					Biomimicry Screencast	D:i, ii, iii, iv	Thinking: Critical-Thinking Communication: Interaction Research: Information Literacy
					Vaccine Screencast	D:i, ii, iii, iv	Thinking: Critical-Thinking Communication: Interaction Research: Information Literacy
Chemistry: An Introduction	Systems	Models Patterns	Scientific and Technical Innovation	The behaviour of matter can be explained by the kinetic molecular theory and atomic theory.	Checkpoint	A: i, ii, iii	Communication: Language Thinking: Transfer Research: Information Literacy
					Bounty Lab	B: i, iii, iv	Communication: Language Research: Information Literacy Thinking: Critical-Thinking
					Versatile Viscosity Lab	C: ii, iv, v	Thinking: Critical-Thinking Research: Information Literacy
Physics: Light	Relationships	Form Function Transformation	Scientific and Technical Innovation	Energy can be transferred as both a particle and a wave.	Unit Test	A: i, ii, iii	Communication: Language Thinking: Transfer Research: Information Literacy
					Refraction Lab	C: i, ii	Research: Information Literacy Thinking: Critical-Thinking

Science Fair	Relationships	Evidence Patterns	Scientific and Technical Innovation	By observing and analyzing patterns of interactions, we can gather evidence to develop models that enable us to better understand the world.	Science Fair (Design and Presentation?)	B: i, ii, iii, iv C: i, ii, iv, v D: i, ii, iii, iv	Communication: Language, Interaction Thinking: Critical-Thinking, Creative-Thinking Research: Information Literacy

SCIENCES — YEAR 4

UNIT	KEY CONCEPT	RELATED CONCEPT(S)	GLOBAL CONTEXT	STATEMENT OF INQUIRY (BC BIG IDEA)	SUMMATIVE(S)	OBJECTIVES	ATLs
Biology: Reproduction	Systems	Form Transformation	Identities and Relationships	Cells are derived from cells.	Unit Test	A: i, ii, iii	Communication: Language Thinking: Transfer Research: Information Literacy
					Mitosis Model	A: i, ii, iii	Communication: Language Thinking: Transfer Research: Information Literacy
					Reflection: The Impacts of Reproductive Tech	D: i, ii, iii, iv	Thinking: Critical-Thinking Communication: Interaction Research: Information Literacy
					Article Analysis	D: i, ii, iii, iv	Thinking: Critical-Thinking Communication: Interaction Research: Information Literacy
Chemistry: Atoms, Elements and Compounds	Systems	Models Patterns	Scientific and Technical Innovation	The electron arrangement of atoms impacts their chemical nature.	Unit Test	A: i, ii, iii	Communication: Language Thinking: Transfer Research: Information Literacy
					Design Lab: Bath Bomb	B: i, ii, iii, iv C: i, ii, iii, iv, v	Communication: Language Thinking: Critical-Thinking, Creative-Thinking Research: Information Literacy
					Article Analysis	D: i, ii, iii, iv	Thinking: Critical-Thinking Communication: Interaction Research: Information Literacy

Physics: Electricity	Relationships	Energy Interaction Transformation	Globalization and Sustainability	Electric current is the flow of electric change.	Unit Test	A: i, ii, iii	Communication: Language Thinking: Transfer Research: Information Literacy
					Design Lab: Circuits	B: i, ii, iii, iv C: i, ii, iii, iv, v	Communication: Language Thinking: Critical-Thinking, Creative-Thinking Research: Information Literacy
					Article Analysis	D: i, ii, iii, iv	Thinking: Critical-Thinking Communication: Interaction Research: Information Literacy
Ecosystems	Relationships	Consequences Interaction Environment	Globalization and Sustainability	The biosphere, geosphere, hydrosphere, and atmosphere are interconnected, as matter cycles and energy flows through them.	Ecosystem-Jar Project	A: i, ii, iii	Communication: Language Thinking: Transfer Research: Information Literacy
					Article Analysis	D: i, ii, iii, iv	Thinking: Critical-Thinking Communication: Interaction Research: Information Literacy

SCIENCES — YEAR 5

UNIT	KEY CONCEPT	RELATED CONCEPT(S)	GLOBAL CONTEXT	STATEMENT OF INQUIRY (BC BIG IDEA)	SUMMATIVE(S)	OBJECTIVES	ATLs
Biology: Genetics	Relationships	Consequences Function Models	Scientific and Technical Innovation	DNA is the basis for the diversity of living things.	Unit Test	A: i, ii, iii	Communication: Language Thinking: Transfer Research: Information Literacy
					Design Lab: Blood	B: i, iv C: i, ii, iv, v	Communication: Language Thinking: Critical-Thinking Research: Information Literacy
					Reflection: The Impacts of Genetic Science	D: i, ii, iii, iv	Thinking: Critical-Thinking Communication: Interaction Research: Information Literacy

					Reflection: The Impacts of CRISPR	D: i, ii, iii, iv	Thinking: Critical-Thinking Communication: Interaction Research: Information Literacy
Chemistry: Chemical Reactions	Change	Balance Interaction Models	Scientific and Technical Innovation	Energy change is required as atoms rearrange in chemical processes.	Unit Test	A: i, ii, iii	Communication: Language Thinking: Transfer Research: Information Literacy
					Design Lab: Reactivity Series / Types of Chemical Reactions	B: i, ii, iii, iv C: i, ii, iii, iv, v	Communication: Language Thinking: Critical-Thinking, Creative-Thinking Research: Information Literacy
					Infographic: Chemistry that Changed the World	D: i, ii, iii, iv	Thinking: Critical-Thinking Communication: Interaction Research: Information Literacy
Physics: Energy	Relationships	Energy Transformation	Scientific and Technical Innovation	Energy is conserved, and its transformation can affect living things and the environment.	Unit Test	A: i, ii, iii	Communication: Language Thinking: Transfer Research: Information Literacy
					Design Lab: Inclined Plane	B: i, ii, iii, iv C: i, ii, iii, iv, v	Communication: Language Thinking: Critical-Thinking, Creative-Thinking Research: Information Literacy
					Lab: Marble Roller Coaster	C: ii, iv	Thinking: Critical-Thinking
					Reflection: The Impacts of Site C and the Transmountain Pipeline	D: i, ii, iii, iv	Thinking: Critical-Thinking Communication: Interaction Research: Information Literacy
Space Science	Change	Energy Evidence Models	Orientation in Space and Time	The formation of the universe can be explained by the big bang theory.	Reflection: The Impacts of the Thirty Metre Telescope / The impacts of Space Science	D: i, ii, iii, iv	Thinking: Critical-Thinking Communication: Interaction Research: Information Literacy