Year 10 Sciences Overview

Unit	Key Concept	Related Concept	Global Contexts & Explorations	Statement of Inquiry	Skills	Areas of learning
Life Processes	Change	Form, interaction	Scientific and Technical Innovation - systems and processes	Life exists due to the interaction between processes, that allow change from one form to another.	Critical thinking	- Cell biology - Plant biology - Photosynthesis - Cellular respiration
Atomic Structure, Bonding & Kinetics	Relationships	Patterns, forms	Scientific and Technical Innovation - atomic models	Patterns in the periodic table help us identify the bonding in compounds through scientific innovations and experiments.	Critical Thinking	- Periodic table - Electron configuration - Ionic & covalent compounds - Types of chemical reactions - Balancing chemical equations - Rate of reaction
Principles of Safety Design	Relationships	Energy	Scientific and technical innovation	The relationship of Force, Impulse and Momentum can allow us to innovate safety design in devices to minimize injury and/or death in collisions.	Information & literacy Communication	- Newton's Laws of Motion - Momentum - Elastic and inelastic collisions - Impulse
Homeostasis	Systems	Balance, consequences	Scientific and Technical Innovation - Consequences and responsibility	Health is a result of making sound choices that work with your body in maintaining an internal balance.	Critical thinking Research	- Homeostasis - Endocrine system - Central nervous system
Thermo-dynamics	Currently updating.					