

Y10 Science Overview

Unit #	Unit title	Key Concept	Related Concept	Global Context and Explorations	Statement of Inquiry	Skills	Assessment Criteria
1	Life Processes	Relationships	Form Interaction	Scientific and Technical Innovation - <i>systems and processes</i>	Life exists due to a balance in the relationships between many processes.	Thinking – Critical thinking skills	A- Knowing and Understanding D- Reflecting on the impact of science
2	Motion	Change	Movement	<i>Scientific and Technical Innovation</i> - <i>modernization, industrialization and engineering</i>	Movement is a result of change over time.	Social – Collaboration Skills	A- Knowing and Understanding B- Inquiring and Designing C- Processing and Evaluating
3	Atomic Structure and Bonding	Relationships	Patterns	Scientific and Technical Innovation - <i>models</i>	Patterns allow reactions to be predicted.	Research-Information Literacy Skills	A- Knowing and Understanding
4	Homeostasis	Systems	Balance Consequences	Scientific and Technical Innovation - <i>ingenuity and progress</i>	Progress and ingenuity have consequences, both positive and negative, on the balance of our life systems.	Critical Thinking - gather and organise relevant information to formulate and argument. Creative Thinking - practise flexible thinking - develop multiple opposing, contradictory and complementary arguments.	A- Knowing and Understanding D- Reflecting on the impact of science
5	Forces and Energy	Relationships	Energy Movement	Globalization and Sustainability - <i>Consumption, conservation, natural resources and public goods</i>	The relationship between movement and useful work necessitates the consumption of energy resources.	Research-Information Literacy Skills	B- Inquiring and Designing C- Processing and Evaluating

6	Energetics	Change	Forms Patterns	Scientific and Technical Innovation <i>- methods and processes</i>	All chemical changes involve methods in a predictable pattern, which can be used to determine the rate of processes and reactions	Critical Thinking Skills	Formative - D- Reflecting on the impact of science
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