

BIG IDEAS

BCL		THE CELLULAR BASIS OF LIFE	Organisms are made of one or more cells, which need a supply of energy and molecules to carry out life processes.
BHL		HEREDITY AND LIFE CYCLES	Genetic information is passed from each generation to the next; this information and the environment affect the features, growth and development of organisms.
BOE		ORGANISMS AND THEIR ENVIRONMENTS	All organisms, including humans, depend on, interact with and affect the environments in which they live and other organisms that live there.
BVE		VARIATION, ADAPTATION AND EVOLUTION	Differences between organisms cause species to evolve by natural selection of better adapted individuals. The great diversity of organisms is the result of evolution.
BHD		HEALTH AND DISEASE	Organisms must stay in good health to survive and thrive; the health of an individual results from interactions between its body, behaviour, environment and other
CSU		SUBSTANCES AND PROPERTIES	Materials are either made of a single chemical substance or a mixture of substances which each have distinctive properties.
CPS		PARTICLES AND STRUCTURE	All matter is made up of atoms. The behaviour and structural arrangement of atoms explains the properties of different materials.
CCR		CHEMICAL REACTIONS	During chemical reactions, atoms are rearranged and new substances are formed.
CEC		EARTH CHEMISTRY	Substances can move within and between the atmosphere, hydrosphere, geosphere and biosphere as part of large-scale Earth systems.
CDE		DYNAMIC EARTH	The Earth's crust is constantly changing as new rocks are formed and older rock is worn away.
PMA		MATTER	Objects are made of particles with mass. Understanding particles helps us to design our world.
PFM		FORCES AND MOTION	Forces make things change. Understanding forces helps us to predict and control physical change.
PSLW		SOUND, LIGHT AND WAVES	Waves radiate information. Understanding waves helps us to communicate.
PEM		ELECTRICITY AND MAGNETISM	The everyday world is largely a consequence of electrical charge. Understanding electricity and magnetism helps us develop technology to improve lives.
PES		EARTH IN SPACE	Understanding the uniqueness of the Earth and the vastness of space gives us perspective and awe.
SCE		CAUSE AND EFFECT	Science assumes that for every effect there is one or more causes.
SETM		EXPLANATIONS, THEORIES AND MODELS	Scientific explanations, theories and models are those that best fit the facts known at a particular time.
STP		TECHNOLOGIES AND PRODUCTS	The knowledge produced by science is used in some technologies to create products to serve human ends.
SAI		APPLICATIONS AND IMPLICATIONS	Applications of science often have ethical, social, economic and political implications.