

SCIENCE TOPIC MAP

Prep															
Package 1	Package 2	Package 3	Package 4	Package 5	Package 6	Package 7	Package 8	Package 9	Package 10	Package 11	Package 12	Package 13	Package 14	Package 15	Package 16
Chemical sciences • Observing objects and materials	Chemical science • Properties of materials in everyday objects	Chemical science • Sorting materials	Earth and space sciences • Observing the weather	Earth and space sciences • Daily weather features	Earth and space sciences • Effects of weather on living things	Biological sciences • Observing living things	Biological sciences • Basic needs of living things	Biological sciences • Needs of animals • Needs of plants	Biological sciences • Humans and the needs of living things	Physical sciences • Observing moving objects	Physical sciences • Ways of moving	Physical sciences • Ways of moving • Effect of size and shape	Physical sciences • Properties that affect movement Chemical sciences • Effects of water on materials	Chemical sciences • Effects of wind on materials	Physical sciences • Movement of familiar objects

Year 1															
Package 1	Package 2	Package 3	Package 4	Package 5	Package 6	Package 7	Package 8	Package 9	Package 10	Package 11	Package 12	Package 13	Package 14	Package 15	Package 16
Chemical sciences • Observable properties of materials • Changing materials for a purpose	Chemical sciences • Investigating properties of materials	Chemical sciences • Warming materials • Recycling	Earth and space sciences • Observing day and night skies	Earth and space sciences • Weather and skies • Landscapes	Earth and space sciences • Landscapes • Changes to skies and landscapes	Biological sciences • External features of animals	Biological sciences • External features of plants • Habitats and needs	Biological sciences • Healthy and unhealthy habitats	Biological sciences • Living things and their habitats	Physical sciences • Observing light and sound • Sources of light	Physical sciences • Properties of light • Sources of sound	Physical sciences • Properties of sound • Light and sound effects	Physical sciences • Light and sound effects	Chemical sciences • Physically changing materials	Chemical sciences • Properties of materials • Changing materials

Year 2															
Package 1	Package 2	Package 3	Package 4	Package 5	Package 6	Package 7	Package 8	Package 9	Package 10	Package 11	Package 12	Package 13	Package 14	Package 15	Package 16
Physical sciences • Pushes and pulls to move familiar objects	Physical sciences • Direction of pushes and pulls • Strength of pushes and pulls	Physical sciences • Effect of shape on pushes and pulls • Effect of surface on pushes and pulls	Physical sciences • Changing an object's shape using pushes and pulls Biological sciences • Familiar living things	Biological sciences • Parents and offspring • Animal life stages	Biological sciences • Animal life stages • Plant life stages	Biological sciences • Comparing life stages • Caring for living things	Chemical sciences • Materials, properties and uses	Chemical sciences • Properties to suit purposes	Chemical sciences • Combining materials to make objects	Earth and space sciences • Earth's resources are used by living things	Earth and space sciences • Conserving water • Conserving soil	Earth and space sciences • Resources from the ground • Actions to reduce waste	Earth and space sciences • Actions to conserve Earth's resources	Chemical sciences • Combining materials for a purpose	Physical sciences • Pushes and pulls to move familiar objects

Year 3															
Package 1	Package 2	Package 3	Package 4	Package 5	Package 6	Package 7	Package 8	Package 9	Package 10	Package 11	Package 12	Package 13	Package 14	Package 15	Package 16
Earth and space sciences • Observations of night and day • Earth's rotation	Earth and space sciences • Earth's rotation and changes in sunlight	Earth and space sciences • Relative size and motion of Earth, moon and sun	Physical Sciences • Sources of heat • Heat transfer	Physical sciences • Producing heat • Heat transfer	Physical sciences • Reducing heat transfer	Physical sciences • Factors affecting heat transfer	Physical sciences • Absorbing heat	Physical sciences • Using understanding of heat transfer in daily life	Biological sciences • Grouping based on observable features • Observing things scientifically	Chemical sciences • Matter in solid or liquid form • Properties of solids and liquids	Chemical sciences • Comparing properties of solids and liquids • Solids and heating	Chemical sciences • Change of state between solid and liquid	Chemical sciences • Heating and solid/liquid change of state	Chemical sciences • Solid/liquid change of state in the environment	Biological sciences • Grouping living things based on observable features

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Year 4															
Package 1	Package 2	Package 3	Package 4	Package 5	Package 6	Package 7	Package 8	Package 9	Package 10	Package 11	Package 12	Package 13	Package 14	Package 15	Package 16
Biological sciences <ul style="list-style-type: none"> Needs of living things Stages of development 	Biological sciences <ul style="list-style-type: none"> Non-living factors and living things Relationships between living things 	Biological sciences <ul style="list-style-type: none"> Endangered species 	Biological sciences <ul style="list-style-type: none"> Relationships that affect life cycles 	Earth and space sciences <ul style="list-style-type: none"> Weathering and erosion 	Chemical sciences <ul style="list-style-type: none"> Properties of materials Purposes of materials 	Chemical sciences <ul style="list-style-type: none"> Natural and processed materials Fabric properties and uses 	Chemical sciences <ul style="list-style-type: none"> Absorbency of materials Common properties of metals 	Chemical sciences <ul style="list-style-type: none"> Common properties of plastics Selecting materials for use based on their properties 	Chemical sciences <ul style="list-style-type: none"> Selecting and using natural materials Suitability of a product for a purpose 	Physical sciences <ul style="list-style-type: none"> Paired forces acting on objects 	Physical sciences <ul style="list-style-type: none"> Effect of forces on movement of everyday objects Magnetic force 	Physical sciences <ul style="list-style-type: none"> Forces acting on falling objects Friction 	Physical sciences <ul style="list-style-type: none"> Friction and different types of motion Force and motion of everyday objects 	Physical sciences <ul style="list-style-type: none"> Force and motion in games and sport science 	Earth and space sciences <ul style="list-style-type: none"> Different rock types Features of different soils

Year 5															
Package 1	Package 2	Package 3	Package 4	Package 5	Package 6	Package 7	Package 8	Package 9	Package 10	Package 11	Package 12	Package 13	Package 14	Package 15	Package 16
Earth and space sciences <ul style="list-style-type: none"> Scale of the solar system Planetary data Celestial bodies 	Earth and space sciences <ul style="list-style-type: none"> Space discoveries Space exploration 	Earth and space sciences <ul style="list-style-type: none"> First Nations Australians' astronomy Space exploration and technologies 	Biological sciences <ul style="list-style-type: none"> Structural and behavioural features of animals and survival 	Biological sciences <ul style="list-style-type: none"> Structural features of plants and survival 	Physical sciences <ul style="list-style-type: none"> Light sources How light travels Seeing with light Light transmission 	Physical sciences <ul style="list-style-type: none"> Shadows Variables affecting shadows 	Physical sciences <ul style="list-style-type: none"> Light reflection Light refraction 	Physical sciences <ul style="list-style-type: none"> Light refraction and dispersal Light absorption Periscope design 	Physical sciences <ul style="list-style-type: none"> Historical and cultural understandings of light 	Chemical sciences <ul style="list-style-type: none"> Three states of matter Safety considerations related to matter 	Chemical sciences <ul style="list-style-type: none"> Gases and how they move Compression of matter 	Chemical sciences <ul style="list-style-type: none"> Evaporation Condensation 	Chemical sciences <ul style="list-style-type: none"> Gas properties and uses Colloidal mixtures 	Chemical sciences <ul style="list-style-type: none"> Greenhouse gases 	Biological sciences <ul style="list-style-type: none"> Using understandings of living things to inform farming practice

Year 6															
Package 1	Package 2	Package 3	Package 4	Package 5	Package 6	Package 7	Package 8	Package 9	Package 10	Package 11	Package 12	Package 13	Package 14	Package 15	Package 16
Physical sciences <ul style="list-style-type: none"> Electrical circuits Electrical conductors and insulators Electrical safety 	Physical sciences <ul style="list-style-type: none"> Generating electricity from fossil fuels Generating electricity from renewables 	Physical sciences <ul style="list-style-type: none"> Energy forms Alternative energy sources 	Chemical sciences <ul style="list-style-type: none"> States of matter Reversible changes 	Chemical sciences <ul style="list-style-type: none"> Reversible changes Irreversible change 	Earth and space sciences <ul style="list-style-type: none"> Volcanoes and earthquakes Preparing for geological events 	Earth and space sciences <ul style="list-style-type: none"> Cyclones Convection currents and surface temperatures 	Earth and space sciences <ul style="list-style-type: none"> Drought and rainfall patterns Measuring and predicting weather 	Earth and space sciences <ul style="list-style-type: none"> Weather data Extreme weather events 	Earth and space sciences <ul style="list-style-type: none"> Preparing for extreme weather Forecasting and warnings 	Biological sciences <ul style="list-style-type: none"> Features of habitats Measuring effects of environmental factors on survival 	Biological sciences <ul style="list-style-type: none"> Relationship of First Nations Australians with the environment Using scientific data to understand impacts on survival 	Biological sciences <ul style="list-style-type: none"> Effects of environmental conditions on plant growth 	Biological sciences <ul style="list-style-type: none"> Mould investigation Human impact on native species 	Biological sciences <ul style="list-style-type: none"> Impact of environmental change Living things and extreme environments 	Physical sciences <ul style="list-style-type: none"> Alternative energy sources Producing electricity Electrical safety

Year 7															
Package 1	Package 2	Package 3	Package 4	Package 5	Package 6	Package 7	Package 8	Package 9	Package 10	Package 11	Package 12	Package 13	Package 14	Package 15	Package 16
Physical sciences <ul style="list-style-type: none"> Balanced and unbalanced forces Gravity, weight and mass 	Physical sciences <ul style="list-style-type: none"> Friction, resistance and motion 	Physical sciences <ul style="list-style-type: none"> Simple machines Mechanical advantage 	Physical sciences <ul style="list-style-type: none"> Forces and motion Lever 	Physical sciences <ul style="list-style-type: none"> Forces in transport 	Earth and space sciences <ul style="list-style-type: none"> The Earth, moon and sun system Historical astronomy Moon phases 	Earth and space sciences <ul style="list-style-type: none"> Tides Eclipses Solar phenomena 	Earth and space sciences <ul style="list-style-type: none"> Seasons Weather, climate and seasons 	Chemical sciences <ul style="list-style-type: none"> Pure substances and mixtures Separation techniques 	Chemical sciences <ul style="list-style-type: none"> Water cycle Water quality and water treatment 	Biological sciences <ul style="list-style-type: none"> Ways of classifying organisms 	Biological sciences <ul style="list-style-type: none"> Dichotomous keys to identify organisms 	Biological sciences <ul style="list-style-type: none"> Feeding relationships in communities 	Biological sciences <ul style="list-style-type: none"> Food webs and key species Environmental impact on food webs 	Biological sciences <ul style="list-style-type: none"> Human activities and food webs 	Biological sciences <ul style="list-style-type: none"> Investigating effects of forces on motion

SCIENCE TOPIC MAP

Year 8

Package 1	Package 2	Package 3	Package 4	Package 5	Package 6	Package 7	Package 8	Package 9	Package 10	Package 11	Package 12	Package 13	Package 14	Package 15	Package 16
Earth and space sciences <ul style="list-style-type: none"> Earth's structure and geologic time Rocks, minerals and crystals Igneous rocks 	Earth and space sciences <ul style="list-style-type: none"> Sedimentary rocks Metamorphic rocks 	Earth and space sciences <ul style="list-style-type: none"> The rock cycle Rock formations and geological history 	Earth and space sciences <ul style="list-style-type: none"> Soil as a resource Rock and mineral resources 	Earth and space sciences <ul style="list-style-type: none"> Using mineral resources Using fossil fuels Reducing the impact of mining 	Physical sciences <ul style="list-style-type: none"> Describing and classifying forms of energy 	Physical sciences <ul style="list-style-type: none"> Chemical potential energy Gravitational potential energy 	Physical sciences <ul style="list-style-type: none"> Elastic potential energy Kinetic energy Energy transfer and transformation in systems 	Chemical sciences <ul style="list-style-type: none"> States of matter and physical properties Particle model of matter Everyday applications of change of state 	Chemical sciences <ul style="list-style-type: none"> Physical and chemical change and particle model Elements, compounds, pure substances and mixtures The periodic table 	Biological sciences <ul style="list-style-type: none"> Microscopy and biological drawings Historical observations of cells Animal cell structure 	Biological sciences <ul style="list-style-type: none"> Hierarchical organisation of body structures Structure and function of organs and systems 	Biological sciences <ul style="list-style-type: none"> Plant cell structure Structure and function of plant organs and systems 	Biological sciences <ul style="list-style-type: none"> Structure and function at the cellular level Development of cell theory 	Biological sciences <ul style="list-style-type: none"> Specialisation in reproductive cells and strategies Comparing plant and animal reproductive adaptations 	Physical sciences <ul style="list-style-type: none"> Elastic potential energy Kinetic energy Modelling energy flow

Year 9

Package 1	Package 2	Package 3	Package 4	Package 5	Package 6	Package 7	Package 8	Package 9	Package 10	Package 11	Package 12	Package 13	Package 14	Package 15	Package 16
Chemical sciences <ul style="list-style-type: none"> Properties of elements and the periodic table Development of the atomic model 	Chemical sciences <ul style="list-style-type: none"> Sub-atomic particles and elements Mass number Isotopes 	Chemical sciences <ul style="list-style-type: none"> Radioactive decay Radioisotopes 	Earth and space sciences <ul style="list-style-type: none"> Plate tectonic theory Tectonic processes at diverging plates 	Earth and space sciences <ul style="list-style-type: none"> Tectonic processes at converging plates Tectonic processes at transform boundaries Hot spot theory 	Biological sciences <ul style="list-style-type: none"> Essential requirements for life Interdependencies of body systems 	Biological sciences <ul style="list-style-type: none"> Responding to stimuli and homeostasis The immune response 	Biological sciences <ul style="list-style-type: none"> Ecosystems Biotic and abiotic interactions Matter flow 	Biological sciences <ul style="list-style-type: none"> Energy flow in ecosystems Population dynamics 	Biological sciences <ul style="list-style-type: none"> Sustainable management of ecosystems 	Physical sciences <ul style="list-style-type: none"> Forms of energy Thermal energy, heat and temperature 	Physical sciences <ul style="list-style-type: none"> Conduction Convection Radiation 	Physical sciences <ul style="list-style-type: none"> Electricity and electrical circuits Electrical conductors and insulators 	Physical sciences <ul style="list-style-type: none"> Wave and particle models of energy Transmission of sound 	Physical sciences <ul style="list-style-type: none"> Light reflection and refraction The electromagnetic spectrum 	Chemical sciences <ul style="list-style-type: none"> Chemical substances and reactions Chemical formulae and word equations Energy transfer in reactions

Year 10

Package 1	Package 2	Package 3	Package 4	Package 5	Package 6	Package 7	Package 8	Package 9	Package 10	Package 11	Package 12	Package 13	Package 14	Package 15
Physical sciences <ul style="list-style-type: none"> Force, energy and motion Displacement Velocity and acceleration 	Physical sciences <ul style="list-style-type: none"> Measuring velocity and acceleration Newton's First Law of Motion 	Physical sciences <ul style="list-style-type: none"> Newton's First and Third Law of Motion Newton's Second Law of Motion 	Chemical sciences <ul style="list-style-type: none"> Physical properties of elements and the periodic table Chemical properties of metals and the periodic table 	Chemical sciences <ul style="list-style-type: none"> Atomic structure and the Bohr model Electron arrangement, reactivity and the periodic table 	Chemical sciences <ul style="list-style-type: none"> Ionic compounds Chemical equations 	Chemical sciences <ul style="list-style-type: none"> Rates of reaction Covalent compounds 	Chemical sciences <ul style="list-style-type: none"> Covalent compounds, including plastics and pharmaceuticals 	Physical sciences <ul style="list-style-type: none"> Using Newton's laws to describe motion Forces in collisions 	Physical sciences <ul style="list-style-type: none"> Energy changes in collisions Car safety features 	Biological sciences <ul style="list-style-type: none"> Heredity and DNA Cell division by mitosis 	Biological sciences <ul style="list-style-type: none"> Cell division by meiosis Mutation and genetic diversity 	Biological sciences <ul style="list-style-type: none"> Inheritance patterns Pedigrees 	Biological sciences <ul style="list-style-type: none"> Mechanisms of change in populations 	Physical sciences <ul style="list-style-type: none"> Reviewing Newton's laws of motion Energy changes in different systems