



INTRODUCTORY PAPER

SKILL AREA	MEASURING & OBSERVING	INTERPRETING DATA	PREDICTING/CONCLUDING FROM DATA	INVESTIGATING	REASONING/PROBLEM SOLVING
KNOWLEDGE AREA	Questions may require students, for example, to:				
EARTH & BEYOND	<ul style="list-style-type: none"> observe and identify an aspect of a particular season 	<ul style="list-style-type: none"> identify the message conveyed by a simple sign 	<ul style="list-style-type: none"> predict the daytime temperature based on that of previous days 	<ul style="list-style-type: none"> investigate the hardness of different types of rock 	<ul style="list-style-type: none"> identify the moon shape missing from a series of photos
NATURAL & PROCESSED MATERIALS	<ul style="list-style-type: none"> compare the levels of liquids in different containers 	<ul style="list-style-type: none"> interpret a simple graph related to resources 	<ul style="list-style-type: none"> select a material from a list based on data in a table 	<ul style="list-style-type: none"> investigate the results of mixing different solids with water 	<ul style="list-style-type: none"> match the properties of a material with its intended purpose
LIFE & LIVING	<ul style="list-style-type: none"> identify a change that takes place in a living thing over time 	<ul style="list-style-type: none"> identify a stage in the life-cycle diagram of an animal 	<ul style="list-style-type: none"> draw a conclusion based on a simple graph of growth of a child 	<ul style="list-style-type: none"> investigate the growth of seedlings of different types of plant 	<ul style="list-style-type: none"> use a simple key to identify some animals
ENERGY & CHANGE	<ul style="list-style-type: none"> observe changes caused by heating or cooling 	<ul style="list-style-type: none"> rank values in a table of temperature data 	<ul style="list-style-type: none"> predict the movement of objects in simple situations 	<ul style="list-style-type: none"> investigate the formation of shadows 	<ul style="list-style-type: none"> determine the direction of movement of wheels or gears

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Paper Introductory = Year 2
 Paper A = Year 3
 Paper B = Year 4
 Paper C = Year 5
 Paper D = Year 6

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PAPER A

SKILL AREA	MEASURING & OBSERVING	INTERPRETING DATA	PREDICTING/CONCLUDING FROM DATA	INVESTIGATING	REASONING/PROBLEM SOLVING
KNOWLEDGE AREA	Questions may require students, for example, to:				
EARTH & BEYOND	<ul style="list-style-type: none"> determine similarities and differences between rocks 	<ul style="list-style-type: none"> interpret tables with data relating to planetary data 	<ul style="list-style-type: none"> make a prediction about seasonal changes 	<ul style="list-style-type: none"> investigate seasons and the Sun's movement across the sky 	<ul style="list-style-type: none"> determine how weather affects different regions on Earth
NATURAL & PROCESSED MATERIALS	<ul style="list-style-type: none"> observe the absorption of liquids by paper towels 	<ul style="list-style-type: none"> interpret tables containing information about household products 	<ul style="list-style-type: none"> draw conclusions about the differences between natural and synthetic materials 	<ul style="list-style-type: none"> understand the need to test and investigate new designs 	<ul style="list-style-type: none"> examine the processes involved in recycling materials
LIFE & LIVING	<ul style="list-style-type: none"> measure the length of living things 	<ul style="list-style-type: none"> identify habitats for certain living things 	<ul style="list-style-type: none"> examine the function of different body parts of living things 	<ul style="list-style-type: none"> examine differences between living and non-living things 	<ul style="list-style-type: none"> determine characteristics of living things from available data
ENERGY & CHANGE	<ul style="list-style-type: none"> read a thermometer 	<ul style="list-style-type: none"> interpret results of a test for floating and sinking 	<ul style="list-style-type: none"> predict the effect of a magnet on certain objects 	<ul style="list-style-type: none"> investigate the uses of sound 	<ul style="list-style-type: none"> select the most efficient machinery to achieve an outcome

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PAPER B

SKILL AREA	MEASURING & OBSERVING	INTERPRETING DATA	PREDICTING/CONCLUDING FROM DATA	INVESTIGATING	REASONING/PROBLEM SOLVING
KNOWLEDGE AREA	Questions may require students to do all the above as well as, for example, the following:				
EARTH & BEYOND	<ul style="list-style-type: none"> observe geographical features including mountains and rivers 	<ul style="list-style-type: none"> identify equipment needed for humans to go into space 	<ul style="list-style-type: none"> understand how sedimentary rocks form 	<ul style="list-style-type: none"> investigate the effect of wind on objects 	<ul style="list-style-type: none"> deduce aspects of Earth's motion from diagrams
NATURAL & PROCESSED MATERIALS	<ul style="list-style-type: none"> observe differences between natural and synthetic materials 	<ul style="list-style-type: none"> understand graphs relating to recycling materials 	<ul style="list-style-type: none"> draw conclusions about physical properties of materials 	<ul style="list-style-type: none"> investigate making and using paper 	<ul style="list-style-type: none"> evaluate the advantages and disadvantages of designs
LIFE & LIVING	<ul style="list-style-type: none"> identify the human senses 	<ul style="list-style-type: none"> use keys to distinguish between animals 	<ul style="list-style-type: none"> predict the effect of change on food webs 	<ul style="list-style-type: none"> investigate how plants attract bees 	<ul style="list-style-type: none"> deduce how humans have affected living and non-living cycles
ENERGY & CHANGE	<ul style="list-style-type: none"> observe changes in ingredients when heated 	<ul style="list-style-type: none"> interpret simple changes in energy 	<ul style="list-style-type: none"> predict the effect of different forces applied to objects 	<ul style="list-style-type: none"> investigate how sounds are made and used 	<ul style="list-style-type: none"> deduce the direction and speed of cogs from diagrams

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KNOWLEDGE AREA	Questions may require students to do all the above as well as, for example, the following:				
EARTH & BEYOND	<ul style="list-style-type: none"> observe different cloud patterns 	<ul style="list-style-type: none"> interpret information given on a geological timescale 	<ul style="list-style-type: none"> predict the position of stars at different times of the night 	<ul style="list-style-type: none"> investigate weather patterns 	<ul style="list-style-type: none"> deduce the position of shadows during the day
NATURAL & PROCESSED MATERIALS	<ul style="list-style-type: none"> identify crystal structures of simple salts 	<ul style="list-style-type: none"> identify pollution related issues from graphical data 	<ul style="list-style-type: none"> examine differences between solids, liquids and gases 	<ul style="list-style-type: none"> analyse simple experiments performed with household materials 	<ul style="list-style-type: none"> examine heat expansion in metals
LIFE & LIVING	<ul style="list-style-type: none"> measure living things using printed scales 	<ul style="list-style-type: none"> use dichotomous keys to classify living things 	<ul style="list-style-type: none"> identify trends in simple food webs 	<ul style="list-style-type: none"> understand the function of controls in biological experiments 	<ul style="list-style-type: none"> examine differences in teeth in animals
ENERGY & CHANGE	<ul style="list-style-type: none"> examine simple circuits 	<ul style="list-style-type: none"> interpret diagrams relating to the flow of electricity 	<ul style="list-style-type: none"> draw a conclusion about energy sources 	<ul style="list-style-type: none"> investigate the properties of wind, water and air 	<ul style="list-style-type: none"> use simple electric circuit diagrams

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PAPER D

SKILL AREA	MEASURING & OBSERVING	INTERPRETING DATA	PREDICTING/CONCLUDING FROM DATA	INVESTIGATING	REASONING/PROBLEM SOLVING
KNOWLEDGE AREA	Questions may require students to do all the above as well as, for example, the following:				
EARTH & BEYOND	<ul style="list-style-type: none"> observe the effects of weathering and erosion 	<ul style="list-style-type: none"> read weather maps 	<ul style="list-style-type: none"> draw conclusions about natural phenomena 	<ul style="list-style-type: none"> investigate variations in air and water temperatures 	<ul style="list-style-type: none"> deduce the youngest rock layer from fossil dating
NATURAL & PROCESSED MATERIALS	<ul style="list-style-type: none"> observe differences between fresh and processed foods 	<ul style="list-style-type: none"> examine tables relating to foodstuffs 	<ul style="list-style-type: none"> draw conclusions about the chemical composition of coins 	<ul style="list-style-type: none"> distinguish between physical and chemical changes 	<ul style="list-style-type: none"> deduce rates of expansion when metal bars are heated
LIFE & LIVING	<ul style="list-style-type: none"> differentiate between human body parts 	<ul style="list-style-type: none"> use habitat maps to identify local plants and animals 	<ul style="list-style-type: none"> use food webs to work out relationships between living things 	<ul style="list-style-type: none"> investigate resources needed for survival of living things 	<ul style="list-style-type: none"> identify how habitats can be polluted by human activities
ENERGY & CHANGE	<ul style="list-style-type: none"> examine light globes of different voltages 	<ul style="list-style-type: none"> interpret graphs of sounds of different loudness 	<ul style="list-style-type: none"> predict current flow in a circuit 	<ul style="list-style-type: none"> investigate hotspots in a microwave oven 	<ul style="list-style-type: none"> examine the ranges of radio frequencies

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PAPER E

SKILL AREA	MEASURING & OBSERVING	INTERPRETING DATA	PREDICTING/CONCLUDING FROM DATA	INVESTIGATING	REASONING/PROBLEM SOLVING
KNOWLEDGE AREA	Questions may require students to do all the above as well as, for example, the following:				
EARTH & BEYOND	<ul style="list-style-type: none"> measure the size of celestial bodies using ratio scales 	<ul style="list-style-type: none"> interpret graphs about sedimentary data 	<ul style="list-style-type: none"> identify landforms from contour maps 	<ul style="list-style-type: none"> investigate rocket propulsion 	<ul style="list-style-type: none"> predict movements of tectonic plates
NATURAL & PROCESSED MATERIALS	<ul style="list-style-type: none"> identify building structures using diagrams and drawings 	<ul style="list-style-type: none"> interpret tables relating to organic and inorganic substances 	<ul style="list-style-type: none"> examine the chemical processes involved in food production 	<ul style="list-style-type: none"> identify correct laboratory equipment to use in experiments 	<ul style="list-style-type: none"> identify sources of chemical pollution in aquatic and terrestrial environments
LIFE & LIVING	<ul style="list-style-type: none"> measure animals using relative sizes 	<ul style="list-style-type: none"> use keys to differentiate between living things 	<ul style="list-style-type: none"> make inferences from animal dental formulas 	<ul style="list-style-type: none"> examine relationships between variables in biological experiments 	<ul style="list-style-type: none"> determine the trophic position of living things in food chains
ENERGY & CHANGE	<ul style="list-style-type: none"> measure electrical current and voltage 	<ul style="list-style-type: none"> examine differences in energy emissions 	<ul style="list-style-type: none"> draw conclusions from data relating to sound 	<ul style="list-style-type: none"> make predictions about reflected and refracted rays of light 	<ul style="list-style-type: none"> calculate speed and acceleration from given formulas

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SKILL AREA	MEASURING & OBSERVING	INTERPRETING DATA	PREDICTING/CONCLUDING FROM DATA	INVESTIGATING	REASONING/PROBLEM SOLVING
KNOWLEDGE AREA	Questions may require students to do all the above as well as, for example, the following:				
EARTH & BEYOND	<ul style="list-style-type: none"> examine and identify differences between sedimentary, metamorphic and igneous rocks 	<ul style="list-style-type: none"> interpret diagrams relating to the hydrosphere, lithosphere and atmosphere 	<ul style="list-style-type: none"> compare models of the solar system and Universe 	<ul style="list-style-type: none"> investigate advantages and disadvantages of renewable and non-renewable energy 	<ul style="list-style-type: none"> understand the structure of Earth
NATURAL & PROCESSED MATERIALS	<ul style="list-style-type: none"> observe the particle model of matter 	<ul style="list-style-type: none"> examine graphs relating to changes of state (solid, liquid and gas) 	<ul style="list-style-type: none"> draw conclusions about the properties of metals and non-metals 	<ul style="list-style-type: none"> examine variables associated with the production of common gases 	<ul style="list-style-type: none"> determine the molecular structure of compounds and elements using models
LIFE & LIVING	<ul style="list-style-type: none"> identify different parts of the cell 	<ul style="list-style-type: none"> classify living and non-living things based on structure and form 	<ul style="list-style-type: none"> understand the function of different systems of the human body 	<ul style="list-style-type: none"> investigate the role of organisms in ecosystems 	<ul style="list-style-type: none"> understand interactions of marine organisms
ENERGY & CHANGE	<ul style="list-style-type: none"> observe transformation of energy 	<ul style="list-style-type: none"> identify energy emission differences 	<ul style="list-style-type: none"> conclude how objects may be moved indirectly 	<ul style="list-style-type: none"> draw conclusions about the speed of sound in different mediums 	<ul style="list-style-type: none"> deduce the velocity of moving objects

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PAPER G

SKILL AREA	MEASURING & OBSERVING	INTERPRETING DATA	PREDICTING/CONCLUDING FROM DATA	INVESTIGATING	REASONING/PROBLEM SOLVING
KNOWLEDGE AREA	Questions may require students to do all the above as well as, for example, the following:				
EARTH & BEYOND	<ul style="list-style-type: none"> measure the size of atmospheric phenomena such as cyclones 	<ul style="list-style-type: none"> determine the characteristics of the Sun from graphical and tabulated data 	<ul style="list-style-type: none"> determine the effects of UV light on living and non-living things 	<ul style="list-style-type: none"> generate hypotheses and predictions in relation to the weather 	<ul style="list-style-type: none"> analyse data related to luminosity of planets and stars
NATURAL & PROCESSED MATERIALS	<ul style="list-style-type: none"> determine the purpose of dials on measuring equipment 	<ul style="list-style-type: none"> interpret data about the properties of metals 	<ul style="list-style-type: none"> interpret representations of simple molecules 	<ul style="list-style-type: none"> establish the sequence in writing up scientific experiments 	<ul style="list-style-type: none"> determine the type of products formed during chemical reactions
LIFE & LIVING	<ul style="list-style-type: none"> identify and classify living things based on written descriptions 	<ul style="list-style-type: none"> use data to identify pests in Australia 	<ul style="list-style-type: none"> understand and use biological terminology 	<ul style="list-style-type: none"> apply methods of random sampling of living things in ecosystems 	<ul style="list-style-type: none"> examine exponential growth in living systems
ENERGY & CHANGE	<ul style="list-style-type: none"> measure power using special instruments 	<ul style="list-style-type: none"> determine the paths of projectiles from a series of photographs or diagrams 	<ul style="list-style-type: none"> determine forces in specific situations 	<ul style="list-style-type: none"> investigate conversions between potential and kinetic energy 	<ul style="list-style-type: none"> deduce relative movement in rotating systems

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KNOWLEDGE AREA	Questions may require students to do all the above as well as, for example, the following:				
EARTH & BEYOND	<ul style="list-style-type: none"> measure geological structures using relative size of objects 	<ul style="list-style-type: none"> interpret relative differences in spectral emission lines 	<ul style="list-style-type: none"> classify stars based on brightness and magnitude 	<ul style="list-style-type: none"> recognise problems associated with extraterrestrial investigations 	<ul style="list-style-type: none"> explain atmospheric phenomena both on Earth and on other planets
NATURAL & PROCESSED MATERIALS	<ul style="list-style-type: none"> identify differences in solvents 	<ul style="list-style-type: none"> understand the properties of acids and bases 	<ul style="list-style-type: none"> identify the effects of alcohol on human functioning 	<ul style="list-style-type: none"> understand the use of substances including catalysts in experiments 	<ul style="list-style-type: none"> establish rules relating to isotopes
LIFE & LIVING	<ul style="list-style-type: none"> identify organ parts of living things 	<ul style="list-style-type: none"> examine transverse sections of living and non-living things 	<ul style="list-style-type: none"> extrapolate graphical information about growth rates of living things 	<ul style="list-style-type: none"> test the function of specific organs and tissues in living things 	<ul style="list-style-type: none"> classify species using non-traditional methods
ENERGY & CHANGE	<ul style="list-style-type: none"> record temperature using scales other than Celsius 	<ul style="list-style-type: none"> identify the effects of electric currents on humans 	<ul style="list-style-type: none"> predict the movement of a series of gears 	<ul style="list-style-type: none"> assess the safety issues associated with experiments involving electricity 	<ul style="list-style-type: none"> compare the different forces acting on a body in the air and in water

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PAPER I

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KNOWLEDGE AREA	Questions may require students to do all the above as well as, for example, the following:				
EARTH & BEYOND	<ul style="list-style-type: none"> measure distances using planetary scales 	<ul style="list-style-type: none"> understand the effect of wind chill on the human body 	<ul style="list-style-type: none"> examine evidence relating to the formation of the Universe 	<ul style="list-style-type: none"> differentiate between accuracy and precision in experiments 	<ul style="list-style-type: none"> examine effects of magnetic fields on Earth and on other planets
NATURAL & PROCESSED MATERIALS	<ul style="list-style-type: none"> observe differences using planetary scales 	<ul style="list-style-type: none"> use graphs related to melting points, boiling points, temperature and pressure 	<ul style="list-style-type: none"> determine the implications of the properties of ionic liquids 	<ul style="list-style-type: none"> examine activation energy and the use of catalysts 	<ul style="list-style-type: none"> use the law of constant proportion and the law of conservation
LIFE & LIVING	<ul style="list-style-type: none"> observe differences between living things at the sub-species level 	<ul style="list-style-type: none"> identify animals based on dental information 	<ul style="list-style-type: none"> estimate populations of living and non-living things in specific environments 	<ul style="list-style-type: none"> critique experiments involving living things 	<ul style="list-style-type: none"> identify the role of genetics and mutation in living things
ENERGY & CHANGE	<ul style="list-style-type: none"> observe records showing the movement of Earth's magnetic poles 	<ul style="list-style-type: none"> understand differences between renewable and non-renewable energy 	<ul style="list-style-type: none"> differentiate between AC and DC circuits 	<ul style="list-style-type: none"> understand the relationship between magnetic and electric fields 	<ul style="list-style-type: none"> determine the amount of energy released from different reactions

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PAPER J

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KNOWLEDGE AREA	Questions may require students to do all the above as well as, for example, the following:				
EARTH & BEYOND	<ul style="list-style-type: none"> determine the age of geological structures from rock stratigraphy 	<ul style="list-style-type: none"> examine cloud formation and El Nino effect 	<ul style="list-style-type: none"> the stages in the evolution of the Sun and other stars 	<ul style="list-style-type: none"> hypothesise about the composition of celestial bodies 	<ul style="list-style-type: none"> predict structures from geological maps
NATURAL & PROCESSED MATERIALS	<ul style="list-style-type: none"> measure microscopic objects 	<ul style="list-style-type: none"> determine the relative abundance of atoms and elements in the universe 	<ul style="list-style-type: none"> relate total dissolved solids to conductivity 	<ul style="list-style-type: none"> understand the effects of various gases on human physiology 	<ul style="list-style-type: none"> determine proportions of atoms in compounds
LIFE & LIVING	<ul style="list-style-type: none"> measure microscopic organisms using nanometre scales 	<ul style="list-style-type: none"> interpret complex life history cycles of parasites and viruses 	<ul style="list-style-type: none"> classify animals to sub-species level 	<ul style="list-style-type: none"> examine the ethics of the use of living subjects in experiments 	<ul style="list-style-type: none"> examine effects of mutations in DNA and RNA
ENERGY & CHANGE	<ul style="list-style-type: none"> measure macroscopic energy changes such as earthquakes and explosions 	<ul style="list-style-type: none"> identify gravitational effects of the moon on tides 	<ul style="list-style-type: none"> follow the movement of Earth's magnetic poles 	<ul style="list-style-type: none"> identify changes in energy at the sub-atomic level 	<ul style="list-style-type: none"> calculate refraction angles and velocity of waves

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