



PAPER J

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"> 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

LEARN MORE