



## PAPER I

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

## LEARN MORE