

# **NATURAL SCIENCES**

GRADE 7 TERM 2

Tracker



Week 1											
CAPS Concepts and Activities	CAPS Page no.	Year:					Year:				
		Class					Class				
		Date Completed					Date Completed				
<b>Week 1 Lesson A</b>											
<b>Topic: Properties of materials</b> <b>Content &amp; Concepts: Physical properties of materials</b> <ul style="list-style-type: none"> <li>Properties of materials determine their suitability for a particular use such as:               <ul style="list-style-type: none"> <li>Strength</li> <li>flexibility</li> </ul> </li> </ul>	22										
<b>Week 1 Lesson B</b>											
<b>Topic: Properties of materials</b> <b>Content &amp; Concepts: Physical properties of materials</b> <ul style="list-style-type: none"> <li>Properties of materials determine their suitability for a particular use such as:               <ul style="list-style-type: none"> <li>boiling and melting points</li> </ul> </li> <li>The boiling point of a substance is the <i>temperature</i> at which the liquid starts boiling (boiling is a rapid change in state from a liquid state to a gas state)</li> </ul>	22										
<b>Week 1 Lesson C</b>											
<b>Topic: Properties of materials</b> <b>Content &amp; Concepts: Physical properties of materials</b> <ul style="list-style-type: none"> <li>Properties of materials determine their suitability for a particular use such as:               <ul style="list-style-type: none"> <li>electrical conductivity</li> <li>heat conductivity</li> </ul> </li> </ul>	22										
<b>Reflection</b>											
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Week 2 Lesson A											
<b>Topic: Properties of materials</b> <b>Content &amp; Concepts: Physical properties of materials</b> <ul style="list-style-type: none"> <li>Other factors (such as cost, colour and texture) are also take into account when using materials</li> </ul>	22										
Week 2 Lesson B											
<b>Topic: Properties of materials</b> <b>Content &amp; Concepts: Physical properties of materials</b> <ul style="list-style-type: none"> <li>Properties of materials determine their suitability for a particular use</li> </ul>	22										
Week 2 Lesson C											
<b>Topic: Properties of materials</b> <b>Content &amp; Concepts: Impact on the environment</b> <ul style="list-style-type: none"> <li>The production and/or use of materials such as metals, plastics and fuels has an impact on the environment</li> </ul>	22										
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Week 3											
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Week 3 Lesson A											
<b>Topic: Separating mixtures</b> <b>Content &amp; Concepts: Mixtures</b> <ul style="list-style-type: none"> <li>A mixture is made up of two or more substances or materials that have different physical properties. Where the properties differ, the substances can be separated</li> </ul>	22										
Week 3 Lesson B											
<b>Topic: Separating mixtures</b> <b>Content &amp; Concepts: Methods of physical separation</b> <ul style="list-style-type: none"> <li>The physical properties of the materials in a mixture determine the separating method to be used</li> <li>Some methods used to separate materials include hand sorting (separating sheep wool from thorns), sieving (separating stones from sand), using a magnet (separating iron from sand)</li> </ul>	22-23										
Week 3 Lesson C											
<b>Topic: Separating mixtures</b> <b>Content &amp; Concepts: Methods of physical separation</b> <ul style="list-style-type: none"> <li>Additional methods include                             <ul style="list-style-type: none"> <li>filtration (separating sand from water)</li> <li>evaporation (retrieving salt from sea water)</li> </ul> </li> </ul>	22-23										
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<b>Week 4 Lesson A</b>											
<b>Topic: Separating mixtures</b> <b>Content &amp; Concepts: Methods of physical separation</b> <ul style="list-style-type: none"> <li>• Additional methods include:               <ul style="list-style-type: none"> <li>○ Distillation (retrieving pure water from sea water). Distillation always involves boiling and condensation [<i>change from gas to a liquid</i>]</li> <li>○ Chromatography (separating different colour pigments from one colour pigment, such as black)</li> </ul> </li> </ul>	23										
<b>Week 4 Lesson B</b>											
<b>Topic: Separating mixtures</b> <b>Content &amp; Concepts: Methods of physical separation</b> <ul style="list-style-type: none"> <li>• Some methods used to separate materials include hand sorting (separating sheep wool from thorns), sieving (separating stones from sand), using a magnet (separating iron from sand)</li> <li>• Additional methods include               <ul style="list-style-type: none"> <li>○ filtration (separating sand from water)</li> <li>○ evaporation (retrieving salt from sea water)</li> <li>○ Distillation (retrieving pure water from sea water). Distillation always involves boiling and condensation [<i>change from gas to a liquid</i>]</li> <li>○ Chromatography (separating different colour pigments from one colour pigment, such as black)</li> </ul> </li> </ul>	23										

Week 4 Lesson C										
<p><b>Topic: Separating mixtures</b>  <b>Content &amp; Concepts: Sorting and recycling materials</b></p> <ul style="list-style-type: none"> <li>• It is every person’s responsibility to dispose of waste in a proper way</li> <li>• Only certain materials are suitable for recycling, such as metals, plastics and glass. Organic waste can be made into compost. Material which cannot be recycled has to be dumped</li> <li>• Local authorities have systems for sorting and disposing of waste materials</li> <li>• There are negative consequences associated with poor waste management such as pollution of water, soil and the environment; health hazards and diseases; blockage of sewage and water drainage systems; waste of land used for landfills; wastage of valuable materials which could be recycled</li> </ul>	23									
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<b>Week 7 Lesson A</b>											
<b>Topic: Introduction to the Periodic Table of Elements</b> <b>Content &amp; Concepts: Arrangement of elements on the Periodic Table</b> <ul style="list-style-type: none"> <li>Each element has its own name, symbol, atomic number and position on the Periodic Table</li> </ul>	25										
<b>Week 7 Lesson B</b>											
<b>Topic: Introduction to the Periodic Table of Elements</b> <b>Content &amp; Concepts: Arrangement of elements on the Periodic Table</b> <ul style="list-style-type: none"> <li>The elements of the Periodic Table are arranged into three main categories; metals, semi-metals and non-metals:               <ul style="list-style-type: none"> <li>Metals are arranged on the left-hand side of the table</li> <li>Non-metals are found on the far-right hand side of the table</li> <li>Semi-metals are found in the region between metals and non-metals</li> </ul> </li> </ul>	25										
<b>Week 7 Lesson C</b>											
<b>Topic: Introduction to the Periodic Table of Elements</b> <b>Content &amp; Concepts: Some properties of metals, semi-metals and non-metals</b> <ul style="list-style-type: none"> <li>Metals are usually shiny, ductile and malleable, solid (except mercury) and have high melting and boiling points</li> </ul>	25										
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Week 8											
		Year:					Year:				
		Class					Class				
		Date Completed					Date Completed				
<b>Week 8 Lesson A</b>											
<b>Topic: Introduction to the Periodic Table of Elements</b> <b>Content &amp; Concepts: Some properties of metals, semi-metals and non-metals</b> <ul style="list-style-type: none"> <li>Non-metals have a variety of different properties (depending on whether they are solids or gases)</li> </ul>	25										
<b>Week 8 Lesson B</b>											
<b>Topic: Introduction to the Periodic Table of Elements</b> <b>Content &amp; Concepts: Some properties of metals, semi-metals and non-metals</b> <ul style="list-style-type: none"> <li>Semi-metals are solids and have some properties of metals and some properties of non-metals</li> </ul>	25										
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<b>Topic: Introduction to the Periodic Table of Elements</b> <b>Content &amp; Concepts: Some properties of metals, semi-metals and non-metals</b> <ul style="list-style-type: none"> <li>Metals are usually shiny, ductile and malleable, solid (except mercury) and have high melting and boiling points</li> <li>Non-metals have a variety of different properties (depending on whether they are solids or gases)</li> <li>Semi-metals are solids and have some properties of metals and some properties of non-metals</li> </ul>	25										
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Week 9												
CAPS Concepts and Activities	CAPS Page no.	Year:					Year:					
		Class					Class					
		Date Completed					Date Completed					
Week 9 Lesson A												
<b>Topic: Revision</b>	22-25											
Week 9 Lesson B												
<b>Topic: Revision</b>	22-25											
Week 9 Lesson C												
<b>Topic: Revision</b>	22-25											
Reflection												
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Week 10											
<b>CAPS Concepts and Activities</b>	CAPS Page no.	Year:					Year:				
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<b>Examination</b>											
<b>Reflection</b>											
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