

# CONTENTS

Unit	Natural Science syllabus	Topics
1 The human body 6	People and health	<ul style="list-style-type: none"> <li>Cells in the human body</li> <li>Tissues and organs</li> </ul>
2 Sensitivity 16	People and health	<ul style="list-style-type: none"> <li>Sensitivity</li> <li>The sense organs</li> </ul>
3 Health and health risks 26	People and health	<ul style="list-style-type: none"> <li>Injuries to the nervous system</li> <li>The effects of alcohol</li> </ul>
<b>TERM REVISION</b>		
4 Plant growth and nutrition 36	Living things	<ul style="list-style-type: none"> <li>What plants need</li> <li>How plants obtain nutrients</li> </ul>
5 Ecosystems 44	Living things	<ul style="list-style-type: none"> <li>The physical environment</li> <li>Living things in ecosystems</li> </ul>
6 People and the environment 54	Living things	<ul style="list-style-type: none"> <li>Terrestrial ecosystems</li> <li>Aquatic ecosystems</li> </ul>
<b>TERM REVISION</b>		
7 Matter 66	Matter and energy	<ul style="list-style-type: none"> <li>Properties of matter</li> <li>Mass and volume</li> </ul>
8 Energy 76	Matter and energy	<ul style="list-style-type: none"> <li>Forms of energy</li> <li>Properties of energy</li> </ul>
9 Forces and machines 86	Technology, objects and machines	<ul style="list-style-type: none"> <li>Changes produced by force</li> <li>Movement and friction</li> </ul>
<b>TERM REVISION</b>		
Cooperative project: Energy sources		

Topics		Know how to
<ul style="list-style-type: none"> <li>■ Systems and organisms</li> <li>■ The skeletal system</li> </ul>	<ul style="list-style-type: none"> <li>■ The muscular system</li> <li>■ Movement</li> </ul>	Perform basic first aid procedures
<ul style="list-style-type: none"> <li>■ Nerves</li> <li>■ The central nervous system</li> </ul>	<ul style="list-style-type: none"> <li>■ The peripheral nervous system</li> </ul>	Use sign language to communicate
<ul style="list-style-type: none"> <li>■ Injuries to the locomotor system</li> <li>■ Physical exercise</li> </ul>	<ul style="list-style-type: none"> <li>■ A healthy diet</li> <li>■ Rest and leisure activities</li> </ul>	Make good decisions
<ul style="list-style-type: none"> <li>■ How plants obtain carbon dioxide</li> <li>■ Photosynthesis</li> </ul>	<ul style="list-style-type: none"> <li>■ Xylem and phloem vessels</li> <li>■ Plant respiration</li> </ul>	Design an experiment on photosynthesis
<ul style="list-style-type: none"> <li>■ Nutrition in ecosystems</li> <li>■ Food chains and food webs</li> </ul>	<ul style="list-style-type: none"> <li>■ Mutualism and commensalism</li> <li>■ Parasitism and competition</li> </ul>	Build a food web
<ul style="list-style-type: none"> <li>■ The environment</li> <li>■ Dangers to the environment</li> </ul>	<ul style="list-style-type: none"> <li>■ Endangered species</li> <li>■ Protecting the environment</li> </ul>	Compare urban and rural ecosystems
<ul style="list-style-type: none"> <li>■ Density</li> <li>■ Floatability</li> </ul>	<ul style="list-style-type: none"> <li>■ Solids, liquids and gases</li> </ul>	Build a submarine and explain how it works
<ul style="list-style-type: none"> <li>■ Energy transformations</li> <li>■ Renewable and non-renewable energy sources</li> </ul>	<ul style="list-style-type: none"> <li>■ Power plants</li> <li>■ Consequences of energy use</li> </ul>	Draw an energy transformation diagram
<ul style="list-style-type: none"> <li>■ Speed and gravity</li> <li>■ Inside a machine</li> </ul>	<ul style="list-style-type: none"> <li>■ Operating parts</li> <li>■ Technological advances</li> </ul>	Build a model bridge