

**GRADE 4 TERM 4**

**NATURAL SCIENCES: EARTH AND BEYOND  
TECHNOLOGY: SYSTEMS AND CONTROL**

**SKILLS to focus on and assess:**

1. Observation
2. Comparing
3. Recording Information
4. Communicating information

<b>Recommended hours (CAPS doc)</b>	<b>Topic:</b>	<b>Knowledge</b>	<b>Resources</b>	<b>Activities</b>	<b>Assessment for learning</b>	<b>Assessment for report</b>
7 hrs	<b>Planet Earth</b>	Features of Planet Earth	<ul style="list-style-type: none"> <li>• Photos of Earth taken from Space</li> </ul>	<ul style="list-style-type: none"> <li>• Look at photos and discuss observations in class.</li> </ul>	<ul style="list-style-type: none"> <li>• Make note on/ draw and label features from observations. <i>(Observation and Recording Information)</i></li> </ul>	
			<ul style="list-style-type: none"> <li>• Textbook/ Internet/ Books/ Posters</li> <li>• Example of fact card with categories.</li> </ul>	<ul style="list-style-type: none"> <li>• Discuss category ideas</li> <li>• Compile "Earth Fact Card" as a class.</li> </ul>		
3.5 hrs	<b>Sun</b>	Features of the Sun	<ul style="list-style-type: none"> <li>• Pictures, diagrams, videos.</li> <li>• Textbook/ Internet/ Books/ Posters</li> </ul>	<ul style="list-style-type: none"> <li>• Discuss observations.</li> </ul>	<ul style="list-style-type: none"> <li>• Record observations in a Circle map. <i>(Observation and Recording Information)</i></li> </ul>	<ul style="list-style-type: none"> <li>• <b>Compile "Sun Fact Card" using source material. <i>(Recording Information)</i></b></li> </ul>
3.5 hrs	<b>Earth and Sun</b>	Moving around the Sun	<ul style="list-style-type: none"> <li>• Pictures, diagrams, videos.</li> </ul>	<ul style="list-style-type: none"> <li>• Discuss observations.</li> </ul>		

			<ul style="list-style-type: none"> <li>• "Sun, Earth, Moon" model printed on cardboard.</li> <li>• Split pins</li> </ul>		<ul style="list-style-type: none"> <li>• Build model and demonstrate to partners how the Sun, Moon and Earth move around each other</li> </ul>	
7 hrs	<b>The Moon</b>	Features of the Moon	<ul style="list-style-type: none"> <li>• Photos of the Moon taken from Space and Earth</li> </ul>	<ul style="list-style-type: none"> <li>• Look at photos and discuss observations in class.</li> </ul>	<ul style="list-style-type: none"> <li>• Make note on/ draw and label features from observations. (<i>Observations and Recording information</i>)</li> </ul>	
			<ul style="list-style-type: none"> <li>• Pictures, diagrams, videos.</li> <li>• Textbook/ Internet/ Books/ Posters</li> </ul>	<ul style="list-style-type: none"> <li>• Discuss observations.</li> <li>• Compile "Moon Fact Card" in pairs.</li> </ul>		
			<ul style="list-style-type: none"> <li>• Earth and Moon Fact Cards</li> <li>• Double Bubble map</li> </ul>	<ul style="list-style-type: none"> <li>• Compare Earth and Moon</li> </ul>	<ul style="list-style-type: none"> <li>• Use Double Bubble map to make note. (<i>Comparing and Recording information</i>)</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Compare "Moon Facts" from two different sources. (Comparing)</b></li> </ul>
		Phases of the Moon	<ul style="list-style-type: none"> <li>• Calendar recording sheet</li> </ul>	<ul style="list-style-type: none"> <li>• Observe the moon for the month and record observations on calendar sheet.</li> </ul>	<ul style="list-style-type: none"> <li>• Write a few sentences to summarise observations. (<i>Observations and Recording information</i>)</li> </ul>	

			<ul style="list-style-type: none"> <li>• “Moon Wheel” printed on cardboard.</li> <li>• Split pins</li> </ul>	<ul style="list-style-type: none"> <li>• Make a “Moon Wheel” to show phases of the Moon.</li> </ul>		
		Moon Stories	<ul style="list-style-type: none"> <li>• Stories from different cultures</li> </ul>	<ul style="list-style-type: none"> <li>• In pairs, summarise the main idea.</li> </ul>		<ul style="list-style-type: none"> <li>• <b>Design a poster advertising a Moon Story as a movie. (communicating information)</b></li> </ul>
7 hrs	<b>Rocket Systems</b>	Modelling a rocket	<ul style="list-style-type: none"> <li>• Textbook/ Videos/ Internet</li> <li>• Different shape/ size balloons</li> <li>• Tape measures</li> </ul>	<ul style="list-style-type: none"> <li>• Research different balloon rockets</li> <li>• Build a balloon rocket</li> <li>• Fly balloon rocket</li> <li>• Measure and record distances covered.</li> <li>• Record data from class</li> <li>• Discuss the results</li> </ul>	<ul style="list-style-type: none"> <li>• Draw graph using class data (Communicating information)</li> <li>• Use BARR to improve rocket design</li> </ul>	<ul style="list-style-type: none"> <li>• <b>Draw graph using class data (communicating information)</b></li> </ul>