

## CHAPTER 2 CHECKLIST

2.1 Energy Flow and nutrient cycles support life in ecosystems		
	Activity	Date
	CREATE a title page in your journal for chapter 2. Be sure to include the whole title of the chapter. Make the title page colourful and relevant to the chapter topic.	
	<p>In your journal write out the definition to each of the following terms.</p> <ul style="list-style-type: none"> <li>• Bioaccumulation</li> <li>• Biodegradation</li> <li>• Carbonate</li> <li>• Carnivore</li> <li>• Cellular respiration</li> <li>• Decomposers</li> <li>• Denitrification</li> <li>• Detrivore</li> <li>• Food chains</li> <li>• Food pyramids</li> <li>• Food webs</li> <li>• Heavy metals</li> <li>• Herbivore</li> <li>• Keystone species</li> <li>• Nitrification</li> <li>• Nutrients</li> <li>• PCBs</li> <li>• Pesticides</li> <li>• Photosynthesis</li> <li>• Trophic levels</li> </ul>	
	WATCH 'Biosphere 2 VIDEO' RESPOND in your Journal by summarizing the video	
	READ textbook page 56-64	
	COMPLETE the textbook page 65 activity 'Comparing Available Energy'. Use the 'Comparing Available Energy' handout to help you. Do all calculations and questions in your journal.	
	JOURNAL REFLECTION In your journal answer the following question 'What would be the impact on life on Earth if less and less solar energy were able to reach Earth's surface?'	
2.2 Nutrient Cycles in Ecosystems		
	<p>READ textbook page 68-87</p> <p>In your Journal use all of the following terms to create a concept map about the Carbon Cycle (Use textbook pages 71-77 to help you)</p> <ul style="list-style-type: none"> <li>• Algae</li> <li>• Atmosphere</li> <li>• Calcium carbonate</li> <li>• Cellular respiration</li> <li>• Coral deposits</li> <li>• Short-term stores</li> <li>• Long-term stores</li> <li>• Ocean</li> <li>• Oil and gas</li> <li>• Photosynthesis</li> <li>• Trees</li> <li>• Volcanic eruption</li> <li>• Sedimentation</li> <li>• Decaying matter</li> </ul>	
	WATCH 'Carbon Capture and Storage' VIDEO RESPOND in your Journal by summarizing the video	
	COMPLETE the 'Questions about the Nitrogen Cycle' handout in your journal (use textbook pages 78-83 to help you)	
	COMPLETE the 'Know Your Nitrogen' handout by cutting and pasting the terms with their matching definitions into your journal.	
	<p>COMPLETE textbook page 87 'The Amazing Nutrient Cycle Race'</p> <p>For this activity you will need the following handouts (cut and glue into your Journal):</p> <ul style="list-style-type: none"> <li>• 'The Carbon Cycle' handout</li> <li>• 'The Nitrogen Cycle' handout</li> <li>• 'The Phosphorous Cycle' handout</li> <li>• Three copies of 'Ecosystem Passport' handout</li> </ul>	
	JOURNAL REFLECTION In your journal answer the following question 'Some human activities, such as burning wood from trees, move carbon already in short-term stores. Other activities, such as burning fossil fuels, bring back carbon stored long ago. Can planting trees make up for the carbon emissions of either or both of these types of human activities?'	
	COMPLETE the 'Ecosystem Review' handout hand it in for marking	
2.3 Effects of Bioaccumulation on Ecosystems		
	READ textbook pages 92-99	
	COMPLETE 'Heavy Metals' handout as you read textbook pages 97-98	
	READ textbook page 102 and ANSWER the questions in your Journal	
	TEXTBOOK Questions page 105 – Q 1, 2, 3, 4, 5, 6, 7, 11, 13, 15, 19, 22, 23, 26, 28	
	STUDY for Chapter 2 test GO TO the website and select the practice tests.	
	WRITE chapter test OR complete a chapter project	