

## Environmental Studies Objectives

<b>Ecosystem Function</b> The student will be able to:	<b>State Standard</b>	<b>Text Pages</b>
1. illustrate and explain energy flow and matter cycling through an ecosystem.	12.4.4	74-89
2. describe how biotic/abiotic factors interrelate within an ecosystem.	12.1.1 12.4.4	68-89 100-107 165-184 212-216
3. demonstrate use of knowledge of population dynamics: <ul style="list-style-type: none"> <li>• exponential growth</li> <li>• carrying capacity</li> <li>• limiting factors.</li> </ul>	12.4.4 12.7.2 12.7.3	146-147 180-184 190-201 254-475

<b>Decision Making</b> The student will be able to:	<b>State Standard</b>	<b>Text Pages</b>
1. understand and evaluate the factors that comprise environmental decision making: <ul style="list-style-type: none"> <li>• cost-benefit analysis</li> <li>• cultural values, scientific analysis</li> <li>• aesthetic factors</li> <li>• economics.</li> </ul>	12.4.4 12.7.1 12.7.4	2-10, 21-36 40-47, 60-61 228-250 346-377 412-413 436-444 466-471, 503 507-510 531-556
2. analyze the impact of resource management strategies on environmental quality: <ul style="list-style-type: none"> <li>• conservation</li> <li>• preservation</li> <li>• remediation</li> <li>• sustainability</li> <li>• recycling</li> <li>• continuation of present policies.</li> </ul>	12.1.5 12.4.4 12.7.3 12.7.4	2-18, 92 141-142 162-163 184-187 222-226, 313 328-335 349-377 380-314 528-755

<b>Human Impact</b> The student will be able to:	<b>State Standard</b>	<b>Text Pages</b>
1. explain human impact on distribution, ownership use, and quality of natural resources: <ul style="list-style-type: none"> <li>• water quality</li> <li>• climate</li> <li>• energy</li> <li>• land tenure models.</li> </ul>	12.4.4 12.7.3 12.7.4	10-13, 86-89 108-122 155-156 160-162 173 199-201 277-309 312
2. describe how individual choice affects the environment now and in the future.	12.1.1 12.4.4 12.7.4	Mentioned previously

**Textbook:** *Living in the Environment*, 13<sup>th</sup> edition, Miller, Thomson Brooks/Cole, 2004