

# Ecology Review Unit #3: Ecosystem in a Bottle

1) What is a closed ecosystem?

2) Water Chemistry:

Test	What is it		
Nitrates		<input type="checkbox"/> How do you balance it?	
		<input type="checkbox"/> What causes a(n):	
		Increase	Decrease
Nitrites		<input type="checkbox"/> How do you balance it?	
		<input type="checkbox"/> What causes a(n):	
		Increase	Decrease
pH		<input type="checkbox"/> How do you balance it?	
		<input type="checkbox"/> What causes a(n):	
		Increase	Decrease

3) Observation types:

a. What is the difference between a quantitative and qualitative observation?

b. Give an example of each

4) Provide a justification for the following:

<b>Scenario</b>	<b>Justification</b>
Putting the terrestrial chamber above the aquatic chamber.	
Adding activated carbon to the aquatic environment.	
Gravel/sand at the bottom of the terrestrial environment.	
Elodea fully submerged in the aquatic environment.	

5) Species requirements:

<b>Species</b>	<b>Requirements</b>	<b>How they are met in a closed ecosystem</b>
Common Name		
	<b>1) CO<sub>2</sub> Supplier</b>	:
	<b>2) Water</b>	:
	<b>3) Nutrients</b>	:
	<b>4)</b>	:
	<b>5)</b>	:
	<b>1) O<sub>2</sub> Supplier</b>	:
	<b>2) Water</b>	:
	<b>3) Nutrients</b>	:
	<b>4)</b>	:
	<b>5)</b>	:
	<b>1)</b>	:
	<b>2)</b>	:
	<b>3)</b>	:
	<b>4)</b>	:
	<b>5)</b>	:

### Rest of Finals Packet:

Unit#1: Introduction	Unit#2:
<input type="checkbox"/> <b>8. REVIEW:</b> Redwood and Oak Woodland <input type="checkbox"/> <b>9. QUIZ:</b> Redwood and Oak Woodland <input type="checkbox"/> <b>15. LAB:</b> Turtle Lab Report & Rubric <input type="checkbox"/> <b>16. STUDY GUIDE:</b> Invasive Species <input type="checkbox"/> <b>17. QUIZ:</b> Invasive Species <input type="checkbox"/> <b>20. REVIEW:</b> Freshwater Review <input type="checkbox"/> <b>21. EXAM:</b> Unit1	<input type="checkbox"/> <b>3. LAB:</b> Bioaccumulation (Lab Q's and Post Lab Research) <input type="checkbox"/> <b>7. REVIEW:</b> Unit 2 <input type="checkbox"/> <b>9. Exam:</b> Unit 2