Critical Thinking Skills



## Sonservation: Waterway Habitat Resources

		Reading							
	Skills For Critical Thinking	Section 1	Section 2	Section 3	Section 4	Section 5	Section 6	Section 7	Hands-on Activities
LEVEL I Remembering	<ul> <li>List Details/Facts</li> <li>Recall Information</li> <li>Match Vocab. to Definitions</li> <li>Define Vocabulary</li> <li>Label Diagrams</li> <li>Recognize Validity (T/F)</li> </ul>	5555 5	5 5 5	555			<i>✓</i>		555
LEVEL 2 Understanding	<ul> <li>Demonstrate Understanding</li> <li>Explain Scientific Causation</li> <li>Rephrasing Vocab. Meaning</li> <li>Describe</li> <li>Classify Into Scientific Groups</li> </ul>			× × ×	5 5 5 5	55 55	5555	555	5555
LEVEL 3 Applying	<ul> <li>Application to Own Life</li> <li>Model Scientific Protect</li> <li>Organize &amp; Classify Lacts</li> <li>Utilize Alternative Restanch Tools</li> </ul>		~	555	5	1	1	5	<b>&gt; &gt; &gt; &gt; &gt;</b>
LEVEL 4 Analysing	<ul> <li>Distinguish Role are mings</li> <li>Make Inferences</li> <li>Draw Conclusion ased on Facts Provided</li> <li>Classify Based on Facts Researched</li> </ul>		5 5 5	5			1		5 5 5 5
LEVEL 5 Evaluating	<ul> <li>State &amp; Defend Opinion</li> <li>Justify Choices for Research Topics</li> <li>Defend Selections &amp; Reasoning</li> </ul>	<b>&gt;</b>		<i>」</i>	✓	1	1	<i>、</i>	<b>&gt;</b> <b>&gt;</b> <b>&gt;</b>
LEVEL 6 Creating	<ul> <li>Compile Research Information</li> <li>Design &amp; Application</li> <li>Create &amp; Construct</li> <li>Imagine Self in Scientific Role</li> </ul>	1							5555

Based on Bloom's Taxonomy



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**W** Reading Passage **Changes In Freshwater Aquatic Ecosystems Caused By Human Activity** 

NAME:

n the past, many factories in the United States dumped pollutants directly into streams and rivers. In the worst cases, some streams became so polluted, they supported almost no life. There were even rivers covered in such heavy oil slicks that they sometimes caught fire. The law called the Clean Water Act has eliminated almost all such direct pollution.

Indirect pollution, by way of the atmosphere, is st a problem. We have already learned that fossil fuels has changed aquatic ecosystems by raising global temperature. Fossil fuels freshwater aquatic ecosystems in anot Sulfur dioxide and nitrous oxid adses released when some fossil fuels are . These bun aases dissolve in raindrops t fall to arth as acid rain which flows into st . and lakes. As the water becomes note active, many species are unable to survice in the aquatic habitat.



Agricultural runoff is another source of pollution of freshwater habitats. When water from fertilized fields runs and streams and lakes, it carries nutrients that encourage algae growth. When the algae die, the decomposition process removes oxygen from the water. If the oxygen content drops far enough, the water will no longer support fish and other organisms that take their oxygen directly from water.

When people build dams, they change freshwater ecosystems. To begin with, a dam changes part of a lotic (flowing) system into a lentic (still) system. This makes the habitat suitable for a different group of organisms. Dams can also disrupt the reproductive cycles of organisms. Dams can cause water temperatures to be unseasonably warm or cold. This confuses organisms whose growth and reproduction is triggered by temperature changes.

Many fish leave large lakes and oceans and swim up streams to lay their eggs. Dams can keep these fish from reaching their **spawning** grounds. Spawning grounds can also



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