



**Lesson:** Matter in the Marsh 7<sup>th</sup> Grade

<b>Overview:</b> To examine the cycling of matter and energy within a freshwater marsh ecosystem.	
<b>Louisiana Science Standard:</b>  7-MS-LS1-6	<b>Key Terms:</b> <ul style="list-style-type: none"><li>• Photosynthesis</li><li>• Respiration</li><li>• Submerged Aquatic Vegetation</li><li>• Hypoxia</li></ul>

<b>Objectives:</b> Students will use experiments to analyze the role of photosynthesis and respiration within a wetland ecosystem. Students will also identify environmental factors that have the ability to hinder photosynthesis and respiration.	
<b>Activity:</b> <ul style="list-style-type: none"><li>• Don't Leaf Out Photosynthesis</li></ul>	<b>Additional Resources:</b> <ul style="list-style-type: none"><li>• Pre Test</li><li>• Supply List</li><li>• Post Test</li></ul>

**Hope for the Coast:** Scientists are researching possible methods to decrease the size of the Gulf of Mexico's annual hypoxic zone.



## Don't Leaf Out Photosynthesis Activity Supplies

Supply	Number Needed	Note
Spinach leaves	½ cup	
Small jar	1	
Wooden dowel/pencil	1	
Acetone	½ cup	
Coffee filters	2	
Pie Tin	1	
Scissors		