

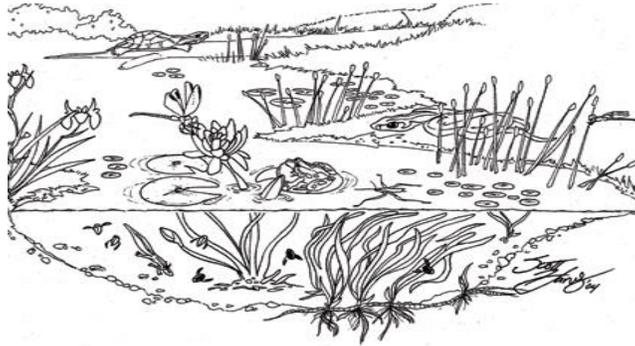
# Module 1 ~ Silent Invaders (UE/MS)

## Emerald Plants Reading Activity



Name: \_\_\_\_\_ Class Period: \_\_\_\_\_ Date: \_\_\_\_\_

**Directions: Read the passage and use the information you've learned to answer the questions below using complete sentences.**



**Emerald plants** are rooted to the bottom of a water body, but their stems, leaves and flowers are all above the water. Bulrush, cat-tail, and duck potato are some examples of emersed plants. Emerald plants live and grow from the water's edge out to where the water is 1 to 3 meters deep (about 3 to 10 feet). They provide **habitat** (places to live and hide) and food (such as seeds and leaves) for fish and other animals. The underwater parts of emersed plants provide places to hide and rest for small animals such as crayfish, tadpoles, and minnows. These animals in turn serve as prey for bigger fish that people like to catch, such as largemouth bass. Emerald plant habitat also serves as a feeding or resting area for birds, ducks, frogs, and raccoons. These plants also help reduce shoreline erosion by absorbing the impact energy of water waves as they come to the shore.

When emersed plants grow close together or in clumps they can cause problems. Some emersed plants, such as cattails, can become so thick that they can prevent access to the shore, or even stop the flow of water. This can cause algae growth and a loss of dissolved oxygen in the water, which makes the water unhealthy for fish and other underwater creatures. Too much growth of either **native** or **non-native** emersed plants can also make boat channels narrower or even block them, which makes it dangerous for people to drive boats through.

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**Emerald Plants Reading Activity (UE/MS) – answer in complete sentences.**

1. How would you describe an emersed plant?

**Emerald plants are rooted to the bottom sediments while their stem, leaves and flowers are above water.**

2. Name two examples of an emersed plant.

**(Any two of the following plants are correct answers.)**



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## Emerald Plants Reading Activity



- Bulrush
- Cat-tail
- Duck potato

3. What functions do emersed plants perform?

**Emerald plants provide shelter for fish as well as food and habitat for other wildlife such as birds, ducks, frogs and raccoons. Emerald plants also help to reduce shoreline erosion.**

The following is a list of suggested standards that pertain to this activity. This list is provided as a reference to incorporate and expand upon as needed.

### Next Generation Sunshine State Standards

#### 4<sup>th</sup> Grade

SC.4.N.1.4: Recognize ways plants and animals, including humans, can impact the environment.

#### 5<sup>th</sup> Grade

SC.5.L.17.1: Compare and contrast adaptations displayed by animals and plants that enable them to survive in different environments such as life cycles variations, animal behaviors and physical characteristics.

### Common Core State Standards

#### 4<sup>th</sup> Grade

Common Core Code	FL Common Core Code	Common Core Standard
RI.4.1	LACC.4.RI.1.1	Refer to details and examples in a text when explaining what the text says explicitly and when drawing inferences from the text.
RI.4.4	LACC.4.RI.2.4	Determine the meaning of general academic and domain-specific words or phrases in a text relevant to a grade 4 topic or subject area.
RF.4.3	LACC.4.RF.3.3	Know and apply grade-level phonics and word analysis skills in decoding words.
RF.4.4	LACC.4.RF.4.4	Read with sufficient accuracy and fluency to support comprehension.
L.4.4	LACC.4.L.3.4	Determine or clarify the meaning of unknown and multiple-meaning words and phrases based on grade 4 reading and content, choosing flexibly from a range of strategies.

#### 5<sup>th</sup> Grade

RI.5.1	LACC.5.RI.1.1	Quote accurately from a text when explaining what the text says explicitly and when drawing inferences from the text.
RI.5.4	LACC.5.RI.2.4	Determine the meaning of general academic and domain-specific words and phrases in a text relevant to a grade 5 topic or subject area.
RF.5.3	LACC.5.RF.3.3	Know and apply grade-level phonics and word analysis skills in decoding words.
RF.5.4	LACC.5.RF.4.4	Read with sufficient accuracy and fluency to support comprehension.
L.5.4	LACC.5.L.3.4	Determine or clarify the meaning of unknown and multiple-meaning words and phrases based on grade 5 reading and content, choosing flexibly from a range of strategies.

#### 6<sup>th</sup> Grade

RI.6.1	LACC.6.RI.1.1	Cite textual evidence to support analysis of what the text says explicitly as well as inferences drawn from the text.
RI.6.4	LACC.6.RI.2.4	Determine the meaning of words and phrases as they are used in a text, including figurative, connotative, and technical meanings.
L.6.4	LACC.6.L.3.4	Determine or clarify the meaning of unknown and multiple-meaning words and phrases based on grade 6 reading and content, choosing flexibly from a range of strategies.



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## Emerged Plants Reading Activity



RST.6-8.4	LACC.68.RST.2.4	Determine the meaning of symbols, key terms, and other domain-specific words and phrases as they are used in a specific scientific or technical context relevant to grades 6–8 texts and topics.
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### 7<sup>th</sup> Grade

RI.7.1	LACC.7.RI.1.1	Cite several pieces of textual evidence to support analysis of what the text says explicitly as well as inferences drawn from the text.
RI.7.4	LACC.7.RI.2.4	Determine the meaning of words and phrases as they are used in a text, including figurative, connotative, and technical meanings; analyze the impact of a specific word choice on meaning and tone.
L.7.4	LACC.7.L.3.4	Determine or clarify the meaning of unknown and multiple-meaning words and phrases based on grade 7 reading and content, choosing flexibly from a range of strategies.
RST.6-8.4	LACC.68.RST.2.4	Determine the meaning of symbols, key terms, and other domain-specific words and phrases as they are used in a specific scientific or technical context relevant to grades 6–8 texts and topics.

### 8<sup>th</sup> Grade

RI.8.1	LACC.8.RI.1.1	Cite the textual evidence that most strongly supports an analysis of what the text says explicitly as well as inferences drawn from the text.
RI.8.4	LACC.8.RI.2.4	Determine the meaning of words and phrases as they are used in a text, including figurative, connotative, and technical meanings; analyze the impact of specific word choices on meaning and tone, including analogies or allusions to other texts.
L.8.4	LACC.8.L.3.4	Determine or clarify the meaning of unknown and multiple-meaning words or phrases based on grade 8 reading and content, choosing flexibly from a range of strategies.
RST.6-8.4	LACC.68.RST.2.4	Determine the meaning of symbols, key terms, and other domain-specific words and phrases as they are used in a specific scientific or technical context relevant to grades 6–8 texts and topics.

### Sources:

UF/IFAS Center for Aquatic and Invasive Plants: <http://plants.ifas.ufl.edu/>

Plant Management in Florida Waters: An Integrated Approach: <http://plants.ifas.ufl.edu/manage/>

Common Aquatic Plants of Lake Okeechobee: Identification, Value, and Management: <http://edis.ifas.ufl.edu/ag371>



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