

IDS 1153
Introduction to Earth Literacy and Sustainability
Miami Dade College

Water Matters – South Florida
Lesson Plan
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Purpose:

The students will develop a basic understanding of the importance of water, South Florida's sources of water, factors that impact quantity and quality of water in South Florida, and explore possible solutions to water issues in South Florida. This will be accomplished by using effective teaching strategies that include cognitive, affective, and psychomotor learning domains.

Objectives:

- Review the water cycle
- Review South Florida's geographical region
- Research South Florida's water sources
- Understand factors that impact South Florida's quality and quantity of water
- Understand South Florida's living organisms current and future water needs
- Research and explore possible solutions to maintain/restore South Florida's water sources

Pedagogic Materials:

Handout: Why Should I care? BioEd Online: Biology Teachers Resources, Lesson Plans

Water Footprint Calculator:

<http://environment.nationalgeographic.com/environment/freshwater/water-footprint-calculator/>

Film: ***More Water: Rescue the Everglades***. Presented by the Tropical Audubon Society
Explore the Everglades: One day fieldtrip

Florida Water Science Center: <http://fl.water.usgs.gov/>

100 ways to Conserve Water: <http://www.wateruseitwisely.com/100-ways-to- conserve/index.php>

Assessment:

Group Project: Students will create a PowerPoint presentation or a video to be presented in high schools. The theme should be the state of water resources in South Florida and what can students and their families do to reduce, reuse or recycle water. This presentation must be based on at least five scientific sources of information. It must also be innovative, creative, and powerful enough to influence students in this age group. Create a Facebook account that students can join to show their commitment to changing behaviors related to water use. Include the account name in the PowerPoint presentation or video. Students will be given a rubric to guide their work and ensure success.