Lakeville A Natural Resource Management Activity

	SCORE RANGE		RITTER
8	6 - 16	SEEK and DESTROY	1
	17 - 27	KEEP IT UNDER CONTRO	L 2
	28 - 38	WATCH IT	3
i	39 - 49	CONSERVATION: LET IT GROW	4
		DECTODATION	1

What would you do if you were in charge of the environment?

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From UF-IFAS Center for Aquatic and Invasive Plants

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Florida Invasive Plant Education Initiative • http://plants.ifas.ufl.edu/education A Collaboration of the UF/IFAS Center for Aquatic and Invasive Plants and the Florida Fish and Wildlife Conservation Commission / Invasive Plant Management Section

A Natural Resource Management Activity

- Goal
- 10 Steps to Playing Lakeville
- Lakeville's Impacts and Future
- Play the Game!

A Natural Resource Management Activity

Goal

Provide students with the opportunity to learn about the challenges associated with making natural resource management decisions by giving them the opportunity to **participate** in the process.

- 10 steps
- 1. Silent Invaders
- 2. Discuss/Define Ecosystem and Land Management
- 3. Large format poster of an ecosystem (Game Board)
- 4. Citizen Advisory Panel (players)
- 5. Critter Roles
- 6. Wheel of Focus
- 7. Critter advocates
- 8. Citizen Advisory Panel ask Questions
- 9. Scores = Management Plan
- **10**. Critter populates the Ecosystem





SILENT INVADERS

A true story about non-native and invasive plants in Florida.

Click here to start the show!

Step #2DiscussEcosystem

Land Management

Define Ecosystem: "An integrated unit of a biological community, its physical environment, and interactions."

(Florida Next Generation Sunshine State Standards)



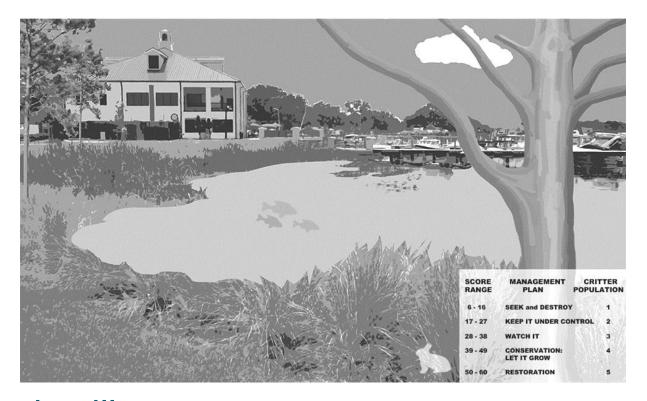


Can your backyard be an ecosystem?

- Have you ever pulled a weed?
- Cut down a tree?
- Bought a plant to grow in your yard?

You are a land (ecosystem) manager!

Step#3 Large format habitat poster



Lakeville – your local freshwater ecosystem

Step#4 Choose Citizen Adivsory Panel Citizen Role Cards



front of card

back of card

Cards provide "clues" for role playing or students can develop their own character traits for a selected citizen role.

Priorities: Happy, well-fed customers – and plenty of them!

Citizen Role Cards (12 to choose from)

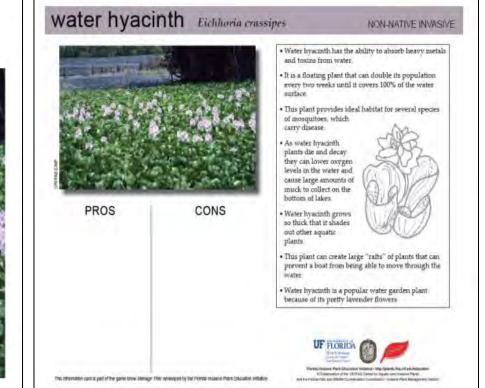


6 students are selected and given randomly chosen (or assigned) roles

Step #5 Assign Critter Role Cards

water hyacinth



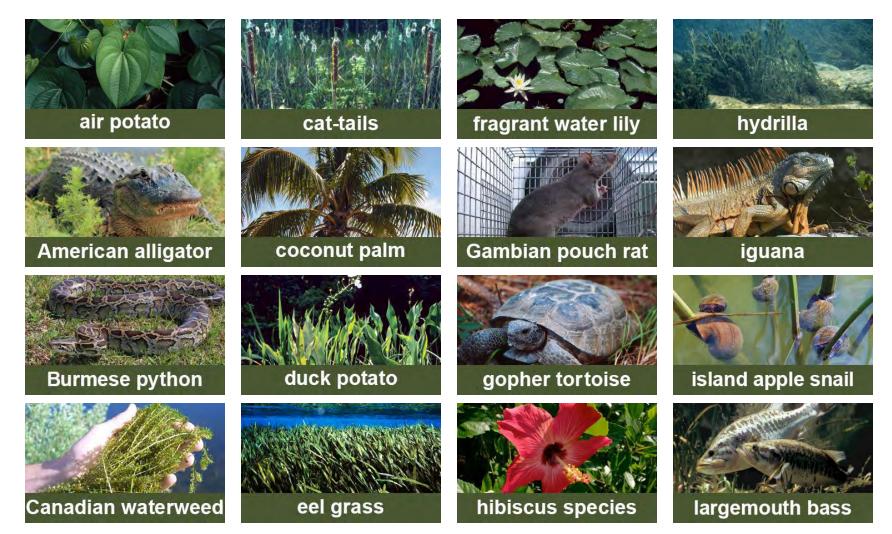


front of card

back of card

Students are given critter role cards with information about their selected critter (Is it aquatic or terrestrial? native, non-native or invasive? What does it eat? Economic value, etc.)

Critter Role Cards (30 to choose from)



Critter Role Cards (30 to choose from)

red imported fire ant

sailfin catfish

small duckweed



manatee

monk parakeet

Old World climbing fern

poison ivy



orange tree







Recommended: choose 12 to work with for one class session. Select critters based on relevancy to your community.





Critter Magnets (or JPEG images to be used on smart board)



30 critters; 5 of each (3" x 5") to be used for populating the habitat, based on decisions made by the Citizen Panel *(More on this later.)*

Step #6 Wheel of Focus



Purchase for your classroom DIY instructions for making table-top version

Step #7 and Step #8

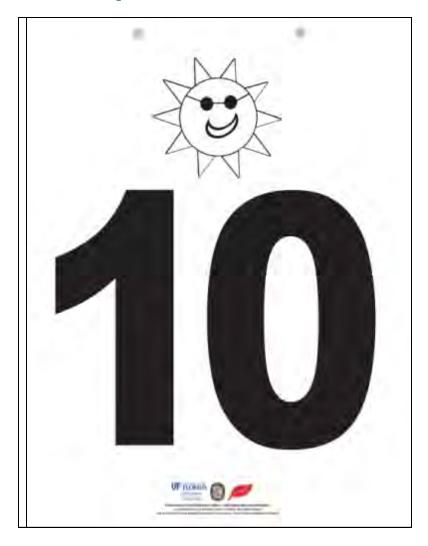


Step #7 Selected critter advocate(s) present in front of the class



Step#8 Citizen advisory panel asks questions; brief discussion with critter

Step #9 Scorecards (10 to restore it; 1 to mow it)





Used by Citizen Panel to "vote" for management plan

VOTE!



Advisory panel votes and the class adds individual scores to achieve a total score (ranging from 6 to 60)

Total Score



6+9+8+8+7+1 = **39**

LAKEVILLE				
SCORE RANGE	MANAGEMENT	CRITTER		
6 - 16	SEEK and DESTRO	Y 1		
17 - 27	KEEP IT UNDER CO	ONTROL 2		
28 - 38	WATCH IT	3		
39 - 49	CONSERVATION: LET IT GROW			
50 - 60	RESTORATION	5		

- 9) Total score is used to determine a Management Plan (five levels)
 - * See Lakeville Large Habitat Poster for scoring system

Step #10 Management Plan

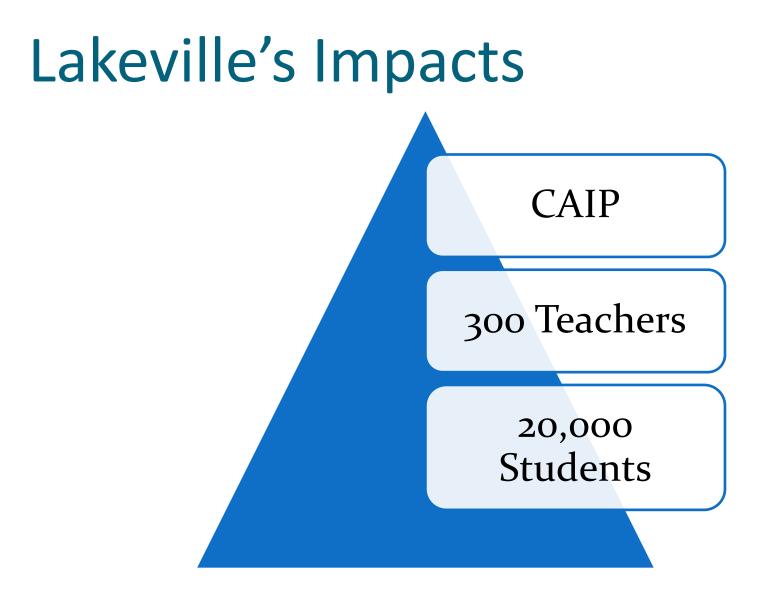


Critter populates the board with management plan number. IMPORTANT: Students make decisions, even if they are not good ones and have consequences...

Discussion ~ Populate the Ecosystem



Discuss as habitat is populated. What will happen to the air potato in a year's time? Predict what will happen with invasive apple snails or native manatees.



Lakeville's Future

- Plant Camp 2013 (25 educators)
- Georgia Camp June 2013 (12 educators)
 - UGA/APMS/AERF
- Florida Schools 2013/2014 (5 schools)
 - FAPMS











Impact

2012 2013

2014?



A Natural Resource Management Activity

See Lakeville Unit Guide



All materials available by request from Florida Invasive Plant Education Initiative http://plants.ifas.ufl.edu/education







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