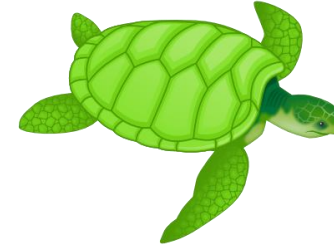


Teacher's Page

Endangerment and Extinction



Materials:

- Scissors
- Envelopes
- Paper Dice (attached to this document)
- Predator, Prey, Hatchling and Human Interaction Station Signs
- Photos of predators, prey, hatchlings and human interaction (optional)
- Overhead projector
- Transparency sheets
- Computer
- Projector

Documents List:

- ✓ Nesting and Hatching Crossword Puzzle
- ✓ Nesting and Hatching Crossword Puzzle Answers
- ✓ Sea Turtle Food Chains and Web Pieces
- ✓ Sea Turtle Food Web Activity
- ✓ Sea Turtle Food Web Activity Answers

Background Information:

Teachers may want to review trophic levels, food chains, food webs and energy flow within an ecosystem prior to this lesson. The following websites provide information, diagrams, and video clips related to the topics listed above.

Trophic Levels

<http://www.globalchange.umich.edu/globalchange1/current/lectures/klings/ecosystem/ecosystem.html>

<http://www.cod.edu/people/faculty/fancher/TrophicPyramids.htm>

Food Chains and Webs

<http://www.vtaide.com/png/foodchains.htm>

<http://users.rcn.com/jkimball.ma.ultranet/BiologyPages/F/FoodChains.html>

<http://magma.nationalgeographic.com/ngexplorer/0309/quickflicks/>

http://www.geography4kids.com/files/land_foodchain.html

Energy Flow/Pyramids

http://www.mesa.edu.au/friends/seashores/energy_pyramid.html

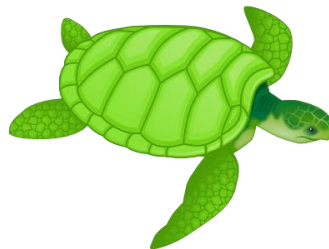
http://www.mhhe.com/biosci/esp/2001_gbio/folder_structure/ec/m3/s2/ecm3s2_6.htm

Directions:

1. Review the previous lesson by having students complete the “Nesting and Hatching Crossword Puzzle” starter activity. You may want to make an overhead of this worksheet to review the answers with the class.
2. Present students with third portion of Sea Turtle Conservation PowerPoint – see notes section of PowerPoint for more information.
3. Hand out and provide directions for the “Sea Turtle Food Chains and Web Pieces.” At this time students will create food chains ONLY. Have the students cut out and make three food chains – all food chains must include a sea turtle.
4. Again, you may want to have made transparency pieces so that the chains described by the students can be seen on the overhead projector.
5. Have students place pieces in an envelope and place to the side – the pieces will be used again later in the lesson.
6. Hand out and provide directions for the “Sea Turtle Food Web Activity.” **Prior set** up required: cut out, fold and tape together dice (make more than one die for each station to avoid a wait time during activity), print out and hang station signs, decorate stations with pictures and objects related to the station (optional).
7. Have students complete the activity and worksheet individually, or in pairs if necessary.
8. When students have complete activity, using the pieces from the Sea Turtle Food Chains activity – have the students work in pairs to create a marine food web. Discuss the difference between food webs and chains – relate to the interactions they experienced during the activity.

Fun Ideas:

- Select students to fill in the answers on the overhead transparency while reviewing the answers to the crossword puzzle.
- Decorate each station with pictures, video clips (if computers are available), and objects related to each station.

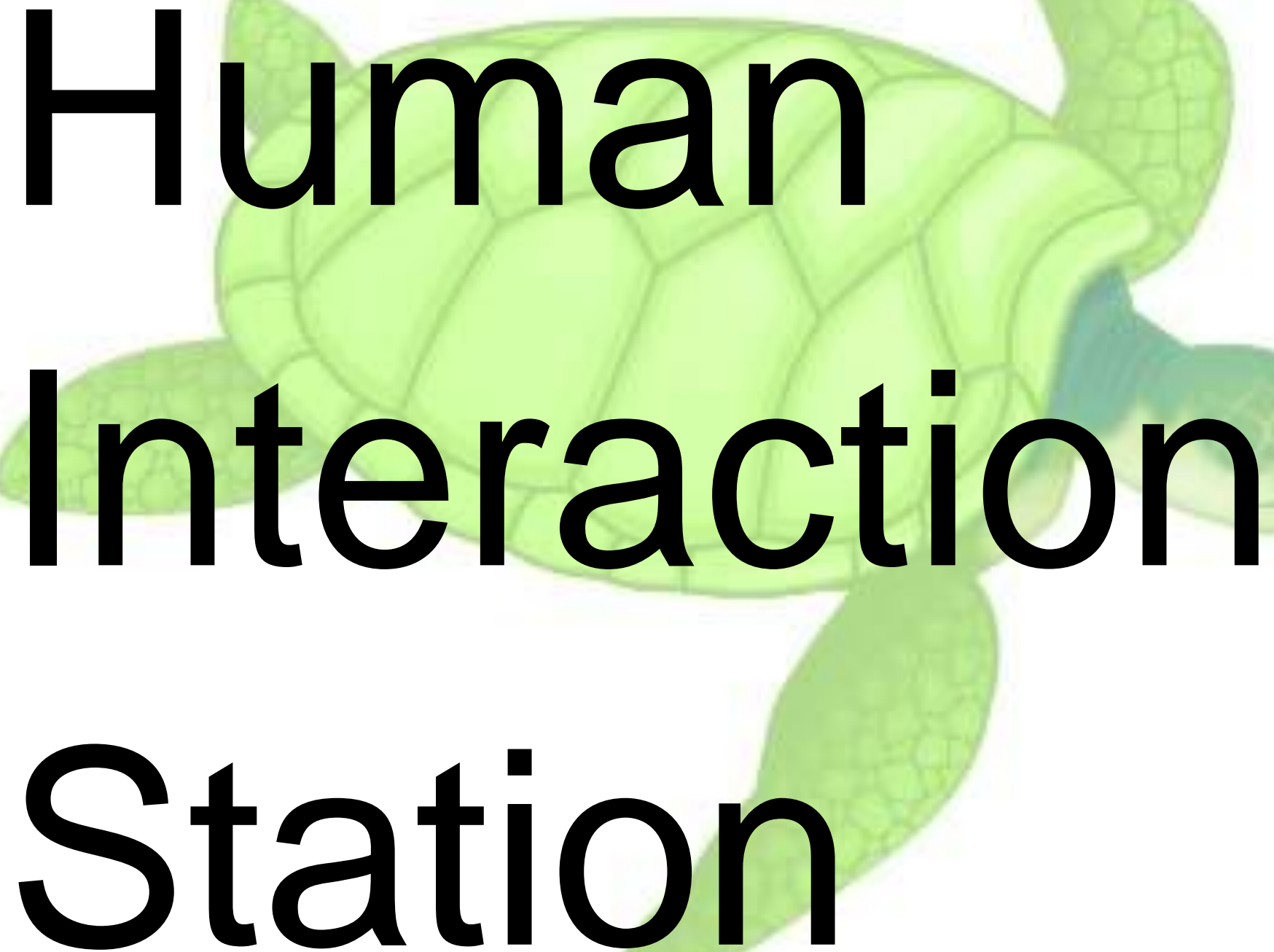


Hatchling Station



	<p>Hatch and make it out to the open ocean.</p> <p>Go to...Predator Station.</p>		
<p>You get eaten by a racoon</p> <p>Stay here.</p>	<p>You survive and make it back out to sea.</p> <p>Go to...Human Interaction Station.</p>	<p>You do not hatch - and become nutrients for other animals and plants.</p> <p>Stay here.</p>	<p>You survive and make it into the ocean.</p> <p>Go to...Prey Station.</p>
	<p>You avoid getting eaten by a sea gull.</p> <p>Go to...Prey Station.</p>		

Human Interaction Station

A green sea turtle is depicted in the background, swimming towards the right. The turtle's shell is a vibrant green with distinct scutes, and its flippers are also green. The head is slightly extended, showing a lighter green color. The entire scene is framed by a thin green border.

	<p>Escape from a fishing net through a Turtle Excluder Device.</p> <p>Stay here.</p>		
<p>You get caught and eaten.</p> <p>Go to...Hatchling Station.</p>	<p>Artificial lighting on beach makes it too bright to nest.</p> <p>Go to...Predator Station.</p>	<p>You get caught and your shell is used to make jewelry.</p> <p>Go to...Hatchling Station.</p>	<p>Once injured you are released back into the wild.</p> <p>Go to...Prey Station.</p>
	<p>You get caught in a net as bycatch.</p> <p>Go to...Hatchling Station.</p>		

Predator Station



	<p>You get eaten by a shark.</p> <p>Go to Hatchling Station.</p>		
<p>You escaped a killer whale attack.</p> <p>Go to...Prey Station.</p>	<p>You get eaten by a jaugar.</p> <p>Go to...Hatchling Station.</p>	<p>You escape a fishing net.</p> <p>Go to Human Interaction Station.</p>	<p>You escape a shark attack.</p> <p>Go to...Human Interaction Station.</p>
	<p>Avoid getting eaten by a shark.</p> <p>Go to Prey Station.</p>		

Prey Station



	<p>Eat a jellyfish.</p> <p>Go to...Predator station.</p>		
<p>Eat some kelp.</p> <p>Go to...Predator station.</p>	<p>Mistake a plastic bag for a jellyfish...and die.</p> <p>Go to...Hatchling Station.</p>	<p>Eat a clam.</p> <p>Stay here.</p>	<p>Eat a starfish.</p> <p>Go to...Human Interaction Station.</p>
	<p>Eat a some sponges.</p> <p>Stay here.</p>		