

Name _____

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Coral Reefs, the Human View

PART A: *Coral Reef Adventure*

1: According to the film, coral reefs have "perhaps the greatest concentration of symbiosis within one single habitat on the planet." Describe at least two examples of symbiosis on a coral reef as depicted in the film *Coral Reef Adventure*.

Explain which organism(s) benefit or are harmed by these relationships.

2: What human relationships with coral reefs were depicted in the film?

Would you classify any of these relationships as symbiotic? Explain.

FOR HOMEWORK:

PART B: A Closer Look at Coral

1: Describe the biodiversity you observed on the reef:

How many different shapes and colors of coral were you able to identify on each reef?

How many different types and sizes of fish?

How many other animals?

How do you think these numbers compare to the actual number of species that make up/inhabit the reef? Explain.

2: How might you go about determining exactly how many species live on a reef and what their ideal living conditions and relationships are? Explain.

Part B: A Closer Look at Coral- For Monday



Close-up view of a hard coral skeleton. *Photo source:* [Clinton Community College Biology Web](#).

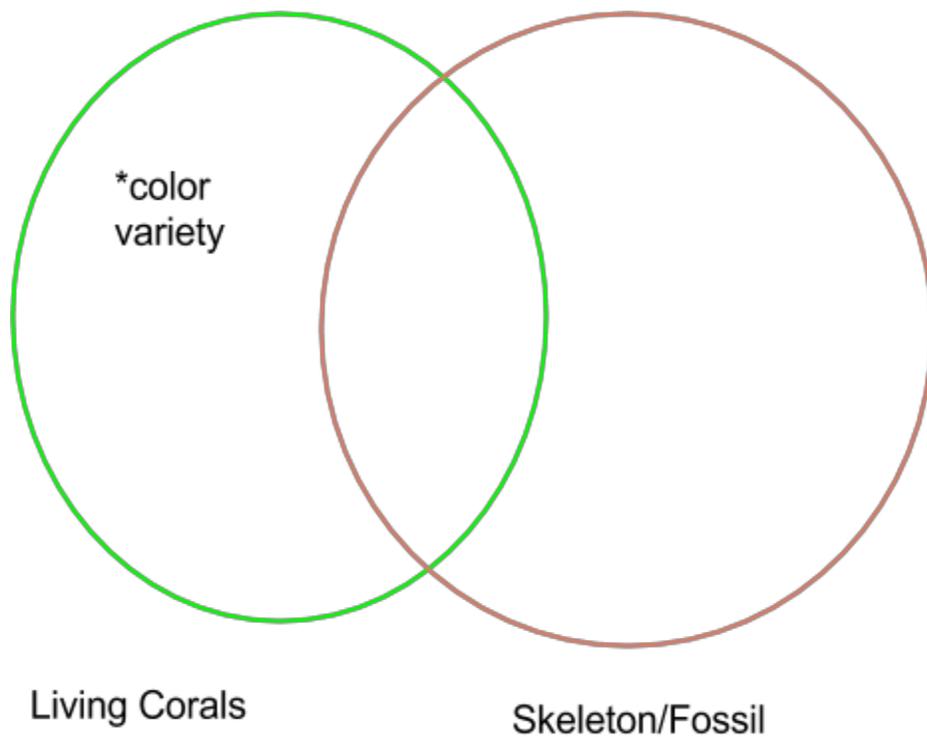
Corals live in the sea, but sometimes we find pieces of them on land. Perhaps you've stumbled across a fragment of coral on a beach or have seen a piece of coral jewelry. Although you should never remove coral from the ocean or buy precious coral jewelry, studying the skeletal remains of coral can help us learn about what they were like when they were still alive.

1. Examine the coral samples brought in by your teacher, first by eye and then with a magnifying glass or under a microscope if possible. For each sample, consider the following questions:
 - Where did the coral sample come from?
 -
 - Is the surface of coral sample rough or smooth to the touch?
 -
 - Is the coral sample white or colorful?
 -

- What shape is the coral sample? Is it symmetric?

Sample	Where is it from?	Describe the surface of the coral.	Color - white or other?	Symmetric shapes or other descriptions
1				
2				
3				
4				
5				

- Do the coral samples brought into class look like the corals you saw in the movie? What makes them similar or different?



Coral reefs are teeming with life on every surface, in every crevice, and in the surrounding waters. Examine a living coral reef ecosystem by visiting a local aquarium or by checking out the following web cams with live streaming video:

- [New England Aquarium Giant Ocean Tank](#) (Be patient for the video stream to load.)
- [Bonaire National Marine Park](#) (The default refresh rate is 15 seconds. To shorten this time interval, use the pull-down at the bottom left of the window. You can also click on the clock icons to view the reef at any time during the last 24 hours.)

Stop and Think

1: Describe the biodiversity you observed on the reef: *How many different shapes and colors of coral were you able to identify on each reef? How many different types and sizes of fish? How many other animals?* How do you think these numbers compare to the actual number of species that make up/inhabit the reef? Explain.

2: How might you go about determining exactly how many species live on a reef and what their ideal living conditions and relationships are? Explain.