

Deep Sea Ecosystems Challenge 7DVS

NAME: _____ DATE: _____

STUDENT #: _____ TEACHER: _____

Creating a Rubric: Student Sheet #1

Categories	0 <i>(would not touch this burger)</i>	1 <i>(okay burger)</i>	2 <i>(amazing burger)</i>
Bun	Soggy and flat	Fresh but not fluffy	Toasted and fluffy
Meat	Flat, gray, and looks old	Sufficient, fresh, cooked appropriately.	*
Toppings	*	Toppings look fresh and include normal toppings: lettuce, tomato, and cheese	Topping are fresh and include extra toppings such as avocado or bacon.
Size	One-three ounce patty	Quarter pounder	*
Presentation	*	*	Burger layout is creative, sides are included. Makes your mouth water when you look at it.

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Evaluating Images: Student Sheet #2

Categories	Hamburger #1	Hamburger #2
Bun		
Toppings		
Meat		
Size		
Presentation		
Total Hamburger Rating		

What do these scores tell you about each Hamburger? How did having a rubric help you rank these Hamburgers??

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Coral Characteristics: Student Sheet #3

Characteristics of a Healthy Coral	Characteristics of an Impacted Coral

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Class Rubric: Student Sheet #4

Categories	Impacted Coral Criteria ☹️ (0)	Healthy Coral Criteria ☺️ (1)
Presence of Hydroids	Coral is partially or fully covered in hydroids	No hydroids
Color		
Skeleton		
Polyps (Branches)		
Brittle Star		
Surrounding Environment		

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Evaluating Images: Student Sheet #5

Coral Colony Site Location: _____

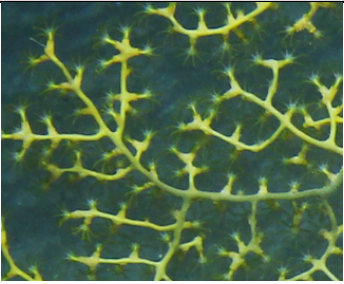



Using your *Class Rubric: Student Sheet #5*, evaluate images of your coral over a six-year period. For each box, enter the rating (1 for healthy corals, 0 for impacted corals) from your rubric.

Categories	2011	2013	2015
Hydroids			
Total Points Health Score <i>(add each column together)</i>			

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Coding Corals: Student Sheet #6

Color	Description	Example	
	Healthy coral, Yellow color, Extended polyps		
	Sclerite enlargement, No extended polyps, Some color in tissue		
	Bare Skeleton, Excess mucous coverage, Hydroid growth		

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Data Visualization Questions: Student Sheet #7

Directions: Use the table below to organize your evidence about the health of the P.Biscaya Coral colonies in the Deep Sea ecosystems of the Gulf of Mexico. **As you are recording evidence, make sure to explain what information each method tells you about the sites.**

	Impact Score	Color Coding Diagram
Your P.Biscaya Coral colony site		
<i>Other</i> P.Biscaya coral colony sites		

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Directions: Answer questions below based on evidence you recorded in your chart.

1. How are these two methods different in quantifying data from an image?

2. Which method would you recommend to the ECOGIG team to use when determining if a P. Biscaya coral colony ecosystem is in recovery? Why?

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Construct an Explanation: Student Sheet #8

Construct an explanation for the ECOGIG team that describes how the health of the P. Biscaya corals have changed over time at the three sites you compared. Use the data collected from the images of the corals as evidence to support your explanation.
