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STANDARDS

- **CCSS:** RST.9-10.1, 2, 3, 4, 5, 7, 8, 9, 10; RST.11-12.1, 2, 3, 4, 8, 9, 10; W.9-10.1, 2, 4; W.11-12.1, 2, 4; SL.9-10.1, 3, 4, 6; SL.11-12.1, 3, 4, 6
- **NGSS:** ESS 2.A, ESS 2.C, ESS 2.E, HS-ESS2-1, HS-ESS2-7
- **OLP:** 1.A.4, 5.B.1

ONLINE CONTENTS

- [Reef Types Quiz](#)

REEF TYPES

This lesson is a part of the *Reef Types* unit, which explains bathymetric features of the ocean floor and how this relates to coral reefs. Below is a summary of what is included in the entire unit.

UNIT CONTENTS

A. [Background Information](#)

- Reef Types
- Bathymetric Features of the Oceans' Floor
- Coral Reef Geomorphology Introduction
- Types of Coral Reef Geomorphology

B. Lessons

[Where Can Corals Grow?](#)

- An activity to make a bathymetry model and analyze it for potential coral growth

[Reef Typing](#)

- An activity to classify reef types (barrier, fringing, atoll)

[Read it! Lagoon Reefs](#)

- A worksheet to accompany the [Lagoon Reefs of Fakarava](#) field blog



LESSON 2

REEF TYPING

INSTRUCTIONS:

1. Look through the pictures of different coral reefs of the Society Islands in French Polynesia.
2. Take notes on the characteristics of each one.
3. Decide how you would classify the reef. The choices are: fringing reef, barrier reef, atoll, and patch reef. Some pictures may have more than one type of reef. Some may fall in between different types.
4. If you think a picture has more than one reef classification on it, do a quick sketch of the picture in the notes box and label the specific areas with letters (A., B., etc.)
5. On your own paper, write a short paragraph for each picture which includes which reef classification(s) you see. Be sure to back up your answer with an explanation of why you think this using what you have learned today.
6. Answer the questions.

Photo #1
Reef Type(s): _____

Photo #2
Reef Type(s): _____

Photo #3
Reef Type(s): _____

Photo #4
Reef Type(s): _____

Photo #5
Reef Type(s): _____

Photo #6
Reef Type(s): _____

Photo #7
Reef Type(s): _____

Photo #8
Reef Type(s): _____

INSTRUCTIONS: Answer the following questions.

1. Were some pictures easy to classify? Why do you think this?
2. What characteristics did you use to classify the three main types of reefs (barrier, fringing, and atoll)?
3. Did everyone else have the same classifications as you did? Give an example.
4. After hearing from other students, did you want to change your classification? Why or why not?



PHOTO #1



PHOTO #2



PHOTO #3



PHOTO #4



PHOTO #5



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PHOTO #6



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PHOTO #7




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PHOTO #8




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