



## Coral Reefs

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1. What is a reef?

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Identify two types of “building blocks” of reefs.

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2. \_\_\_\_\_

2. Answer the following.

a. Is coral a plant or an animal?

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b. In what phylum is coral categorized?

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c. What part of a coral reef is living?

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d. Distinguish between soft and hard corals

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3. Where are coral reefs found? Describe the conditions that are needed for healthy coral growth.

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4. Describe and/or draw a diagram showing at least three different types of coral reefs.
1. \_\_\_\_\_
  2. \_\_\_\_\_
  3. \_\_\_\_\_
5. Define zooxanthellae.
- \_\_\_\_\_
- \_\_\_\_\_
6. Answer the following questions about how corals get their food.
- a. Which type of feeding primarily occurs at night and why does this result in clear water?
- \_\_\_\_\_
- \_\_\_\_\_
- b. Which type of feeding occurs primarily during daylight hours?
- \_\_\_\_\_
- \_\_\_\_\_
- c. Why are coral reefs found in clear water?
- \_\_\_\_\_
- \_\_\_\_\_
7. Identify five corals that can be found on a reef.
1. \_\_\_\_\_
  2. \_\_\_\_\_
  3. \_\_\_\_\_
  4. \_\_\_\_\_
  5. \_\_\_\_\_
8. Identify ten fish that live in a coral reef.
1. \_\_\_\_\_
  2. \_\_\_\_\_
  3. \_\_\_\_\_
  4. \_\_\_\_\_
  5. \_\_\_\_\_

6. \_\_\_\_\_
7. \_\_\_\_\_
8. \_\_\_\_\_
9. \_\_\_\_\_
10. \_\_\_\_\_

9. Identify five species of non-coral invertebrates that might live on a reef.

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_

10. Define “bleaching” as it pertains to corals and explore the impact this has on the reef.

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11. Identify at least one invasive species and how it affects reefs.

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12. Why are reefs an important community? List at least three ways that you can help protect a reef.

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1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_

- 13.** Prepare an object lesson about an animal that lives in the reef. Present this lesson at a club worship or similar function. Be sure to include a Bible text in this presentation.

Date completed \_\_\_\_\_

- 14.** Do at least two of the following.
- a. Make a collection of at least five species of dead coral you find washed up on a beach or fossil corals. Make sure you obey local laws about collecting.
  - b. Watch a presentation about reefs. Summarize what you learned about coral reefs.
  - c. Draw or paint a picture of a reef community with at least ten species.
  - d. As a group, make a short video about a reef conservation project. Explain why this specific habitat should be saved.
  - e. Create a 3D diorama of a coral community.
  - f. A similar project approved by your instructor

Date completed \_\_\_\_\_

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## Coral Reefs, advanced

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- 1. Earn the Coral Reefs honor
- 2. Snorkel or SCUBA dive (if SCUBA certified) in a reef community. Write a report about or present the following things (maps, photographs or drawings may help):
  - a. The location of the reef.
  - b. The date and duration of the visit.
  - c. What did you do there?
  - d. What new information did you learn about this type of habitat beyond what was learned in the basic level honor.
  - e. Provide information about the specific reef you visited, noting any signs of bleaching.
  - f. What measures were taken for your safety and the safety of the reef?
  - g. What did you learn about God while visiting the reef?

Date completed \_\_\_\_\_