



Introduction

Coral reefs are fascinating ecosystems that support a vast array of marine life. In this question sheet, we will explore the different types of coral reefs, their characteristics, and geographic locations. We will also examine the importance of coral reefs and the impact of human activities on these ecosystems.

Section 1: Multiple Choice Questions

Choose the correct answer for each question:

1. What are the three main types of coral reefs?

1. a) Fringing reefs, barrier reefs, and atolls
2. b) Coral polyps, algae, and fish
3. c) Reef crest, reef slope, and reef flat
4. d) Oceanic, coastal, and estuarine

Answer: a) Fringing reefs, barrier reefs, and atolls

2. Where are coral reefs typically located?

1. a) In cold, deep waters
2. b) In tropical and subtropical regions
3. c) In freshwater lakes and rivers
4. d) In polar regions

Answer: b) In tropical and subtropical regions

3. What is the main difference between a fringing reef and a barrier reef?

1. a) A fringing reef is smaller than a barrier reef
2. b) A fringing reef is closer to the shore than a barrier reef
3. c) A fringing reef is deeper than a barrier reef
4. d) A fringing reef is more colorful than a barrier reef

Answer: b) A fringing reef is closer to the shore than a barrier reef

Section 2: Short Answer Questions

Answer each question in 1-2 paragraphs:

1. Describe the characteristics of a coral reef. (5 marks)

2. What is the importance of coral reefs in supporting marine biodiversity? (5 marks)

Section 3: Essay Questions

Answer each question in 2-3 pages:

1. Discuss the geographic distribution of coral reefs around the world. (15 marks)

2. Explain the impact of human activities on coral reefs, including climate change, pollution, and overfishing. (15 marks)

Section 4: Activities

Complete each activity:

1. Create a diagram of a coral reef ecosystem, labeling the different components, including coral polyps, algae, and marine life. (10 marks)

[Space for diagram]

2. Research and write a short report on a coral reef conservation effort, including the strategies used to protect the reef and the outcomes of the project. (15 marks)

Section 5: Case Study

Read the following case study and answer the questions that follow:

The Great Barrier Reef is one of the most biologically diverse ecosystems on the planet, supporting over 1,500 species of fish, 600 species of coral, and many other creatures. However, the reef is facing significant threats, including climate change, pollution, and overfishing.

1. What are the main threats to the Great Barrier Reef? (5 marks)

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2. What are some strategies that could be used to conserve the Great Barrier Reef? (10 marks)



Conclusion

In conclusion, coral reefs are fascinating ecosystems that support a vast array of marine life. It is essential that we understand the different types of coral reefs, their characteristics, and geographic locations, as well as the importance of coral reefs and the impact of human activities on these ecosystems. By working together, we can conserve and protect coral reefs for future generations.

Assessment Rubric

The assessment rubric is based on the Australian Curriculum outcomes and assessment standards for Geography and Science. The marks allocated to each section are indicative and may vary depending on the specific requirements of the assessment task.

- Multiple choice questions: 20 marks
- Short answer questions: 10 marks
- Essay questions: 30 marks
- Activities: 20 marks
- Case study: 20 marks

Total: 100 marks

