

# Assessment Task Notification



RESPECT | RESPONSIBILITY | PERSONAL BEST

Faculty: Science	Course: Marine Studies	Time allowed: 2 weeks
Teacher: Watson	Email: zak.watson@det.nsw.edu.au	
Task number: 1	Title: Coral Reefs Research Task	
Year: 12	Due date: Week 10 Term 4	Weighting: 20%

## Syllabus outcomes assessed:

1.1 Relates with a respectful and caring attitude to the ocean and its life.

3.4 carries out planned research activities using appropriate measurements, observations, classification and recording skills.

## 21<sup>st</sup> Century and employment related skills:

<input type="checkbox"/>	Communication	X	Use of technology
X	Critical Thinking	<input type="checkbox"/>	Self-reflection and refinement
<input type="checkbox"/>	Creativity	X	Problem Solving
<input type="checkbox"/>	Collaboration	<input type="checkbox"/>	Initiative and Enterprise
<input type="checkbox"/>	Planning and Organising	<input type="checkbox"/>	Cross-Cultural Understanding

## Task description:

Students are to research and complete set tasks on coral reef ecology. Students need to label and identify relationships with corals. Locate, describe and discuss coral reef ecosystems. Discuss the importance of coral reefs to the environment and the effects of coral bleaching. Make recommendations to reduce impacts of climate change.

## Assessment criteria:

You will be assessed on your ability to complete answers according to marks allocated for each question.

## Method of task submission:

In class, submit to the teacher.

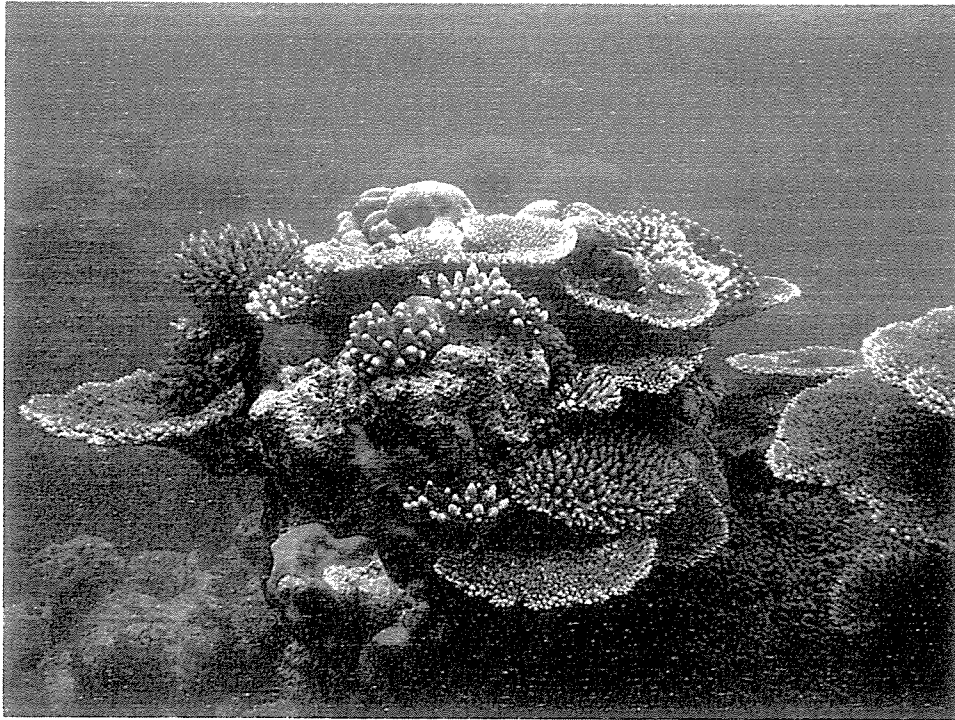
**Marking guidelines:**

See marking criteria attached.



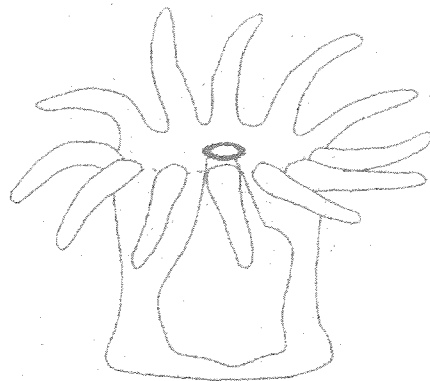
## Marine Studies Year 12 -Task 1

### Coral Reef Ecology



Name: \_\_\_\_\_

1. Label the parts of the coral polyp (4 marks)



2. Identify and describe the important relationship zooxanthellae algae and coral polyps have with each other. (3 marks)

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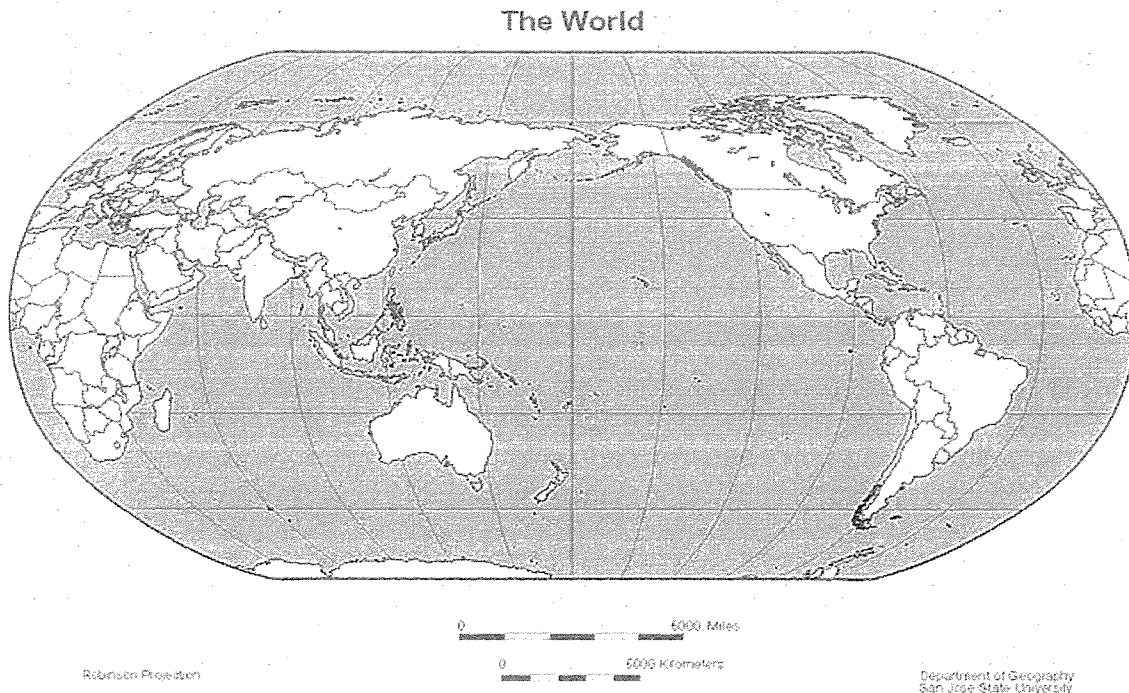
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3. Locate and identify the main coral reef ecosystems in the world on the map below.  
(4 marks)



4. Discuss the abiotic factors corals need to survive and why they are mostly found in tropical ecosystems (6 marks)

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5. Describe, using words and diagrams, three types of coral reefs. (6 marks)

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**CRITERIA FOR ASSESSMENT OF OUTCOMES (Task worth 20%)**

Q	Outcome	Criteria	Pos Mk	Mk /43
1	1.1	<ul style="list-style-type: none"> <li>Identifies all four parts of the polyp - 1 mark each</li> </ul>	4	
2	1.1	<ul style="list-style-type: none"> <li>Identifies and describes a mutualistic relationship correctly</li> <li>Identifies and describes mutualistic relationship</li> <li>Identifies mutualistic relationship</li> <li>Information not relevant</li> </ul>	3 2 1 0	
3	3.4	<ul style="list-style-type: none"> <li>Locates four specific reef sites</li> <li>Locates three reef sites</li> <li>Locates two reef sites</li> <li>Locates one reef site</li> <li>Information not relevant</li> </ul>	4 3 2 1 0	
4	1.1	<ul style="list-style-type: none"> <li>Discusses all abiotic factors coral need to survive and why found in tropical ecosystems</li> <li>Describes some abiotic factors and why found in tropical ecosystems</li> <li>Identifies an abiotic factor and why found in tropical ecosystems</li> <li>Information not relevant</li> </ul>	6 4 2 0	
5	3.4	<ul style="list-style-type: none"> <li>Describe in words and diagrams four reef types</li> <li>Describe in words and diagrams three reef types</li> <li>Describe in words and a diagram two reef types</li> <li>Describe in words and a diagram one reef type</li> <li>Information not relevant</li> </ul>	8 6 4 2 0	
6	3.4	<ul style="list-style-type: none"> <li>Discusses three reasons coral reefs are important</li> <li>Discusses two reasons coral reefs are important</li> <li>Discusses one reason coral reefs are important</li> <li>Information not relevant</li> </ul>	8 4 2 0	
7	1.1	<ul style="list-style-type: none"> <li>Discusses coral bleaching and how it is related to climate change. Makes several recommendations to reduce impacts of climate change.</li> <li>Describes coral bleaching and how it is related to climate change. Makes two recommendations to reduce impacts of climate change.</li> <li>Identifies coral bleaching and how it is related to climate change. Makes a recommendation to reduce impacts of climate change.</li> <li>Describes coral bleaching and how it is related to climate change. No recommendations made.</li> <li>Identifies coral bleaching and how it is related to climate change. No recommendations made.</li> <li>Information not relevant</li> </ul>	10 8 6 4 2 0	

