### Nature of task:
**Assessment Task 1**  
**Research**

<table>
<thead>
<tr>
<th>Date issued:</th>
<th>Date Due:</th>
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<td>31 / 10 / 2011</td>
<td>28 / 11 / 2011</td>
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### Contact Teachers:
**L Chaffer**

<table>
<thead>
<tr>
<th>Time Allowed:</th>
<th>Weighting: Total</th>
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<tr>
<td>4 weeks</td>
<td>20 %</td>
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### Syllabus outcomes:
- **H1** explains the changing nature, spatial patterns and interaction of ecosystems, urban places and economic activity
- **H2** explains the factors which place ecosystems at risk and the reasons for their protection
- **H5** evaluates environmental management strategies in terms of ecological sustainability
- **H6** evaluates the impacts of, and responses of people to, environmental change
- **H12** explains geographical patterns, processes and future trends through appropriate case studies and illustrative examples
- **H13** communicates complex geographical information, ideas and issues effectively, using appropriate written and/or oral, cartographic and graphic forms

### Task instructions:
**CASE STUDY : ECOSYSTEMS AT RISK  GREAT BARRIER REEF**

You are to make a set of notes which contain diagrams, maps, photographs and media reports on the Great Barrier Reef. The notes are to be under the syllabus headings attached. Your notes will created to ensure you can describe, account for, explain, assess and evaluate the GBR Ecosystem and it's management.

Work is to be submitted in a typed document and submitted in hard copy to the library by 8.15 am. Failure to do so will result in zero marks.

If you would like a copy printed of all or some pages in colour at school for you MUST request this on Thursday or Friday before the task is due.

You must include a bibliography which contains all sources used – texts, internet sites, media reports, documents.

### HSIE DEPARTMENT REQUIREMENTS:
It is a requirement that all students complete this assessment task by the due date. If a student is absent on the day that the task is due or due to be completed, they will be required to submit or complete the task on the next day they return to school. A note from home should detail the reasons for the work being submitted late. Penalty will apply to work submitted late.
CASE STUDY: GREAT BARRIER REEF

A case study of an ecosystems at risk to illustrate its unique characteristics including:

DESCRIBE: Spatial patterns and dimensions: location, altitude, latitude, size, shape and continuity

EXPLAIN: Biophysical interactions occurring in the GBR including:
- the relevant dynamics of weather and climate
- any relevant geomorphic and hydrologic processes such as earth movements, weathering, erosion, transport and deposition,
- relevant biogeographical processes such as food chains, food webs, energy flows, invasion, succession, modification, resilience

DESCRIBE and ASSESS: the Vulnerability and resilience of the great barrier reef
- impacts due to natural stress
- adjustments in response to natural stress
- human impacts (both positive and negative)
- the nature and rate of change which affects ecosystem functioning (including impacts due to human induced modifications to energy flows, nutrient cycling, and relationships between biophysical components)

DISCUSS and EVALUATE: The importance of ecosystem management and protection (Reasons for management and protection) of the Great Barrier Reef
- maintenance of genetic diversity
- utility values
- intrinsic values
- heritage values
- need to allow natural change to proceed

DESCRIBE and ACCOUNT for the Traditional and contemporary management practices used on the GBR.

EVALUATE: traditional and contemporary management strategies used on the GBR.

If you are unsure of any of the terms or content areas please post your question on Edmodo so the class can share the questions and answers. This will help everyone.

MARKING GUIDELINES WILL BE POSTED ON EDMODO as a separate document.