

## Preliminary Marine Studies

### Alternate Milestone No.3: Ocean Case Study

**DUE DATE:** Friday 10th September, Week 9, 2021

**WEIGHTING:** 40%

**TEACHER/S:** Melissa Cudworth & Chris Harris

#### Marine Studies Outcomes:

- 1.1 relates with a respectful and caring attitude to the ocean and its life forms
- 1.3 Recalls aspects of the maritime environment using relevant conventions, terminology and symbols learned throughout the course
- 1.5 Demonstrates an awareness of the value of the ocean as a source of historical information
- 3.3 generates information from data by calculating, inferring, interpreting and generalising
- 3.4 carries out planned research activities using appropriate measurements, observations, classification and recording skills
- 5.2 applies information including weather, regulations, procedures and skills to ensure safe use of the marine environment
- 5.3 interprets and follows instructions, with accuracy

**Instructions:** In order to complete your milestone successfully, please read through the content below and ensure you complete each section.

# Environmental Features of the Ocean

1. Research and answer the following question.

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Why is the ocean salty?

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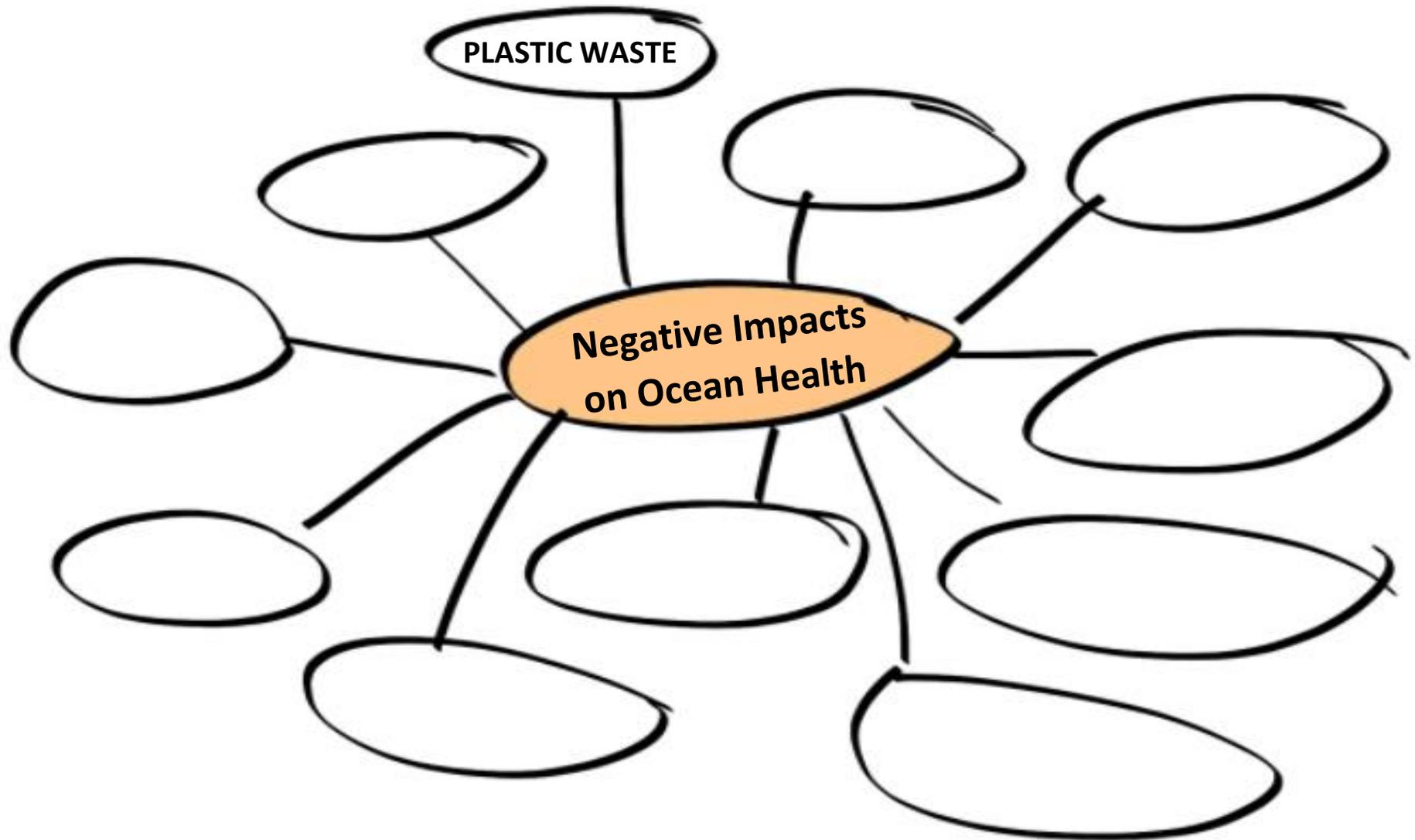
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## Human impacts on the health of the Ocean

Create a mind-map highlighting the negative impacts that 'we' humans have had on the ocean (every bubble must be filled): /5



Choose one of the “Negative Impacts on Ocean Health” from the previous page and complete the following.

**Negative impact:** \_\_\_\_\_

**What human activity has caused this to be a negative impact in the ocean? / 3**

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**Where in the ocean has this impact been the greatest? / 2**

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**What species is this impacting the most? / 2**

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**What steps could people take to help limit this negative impact? Think individuals and also big business.**

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## Case Study: Narrabri Fish Farm- Blue Claw Yabbies

<https://www.dpi.nsw.gov.au> - Yabby Aquaculture Prospects

<https://www.narrabrifishfarm.com.au/species> - Narrabri Fish Farm

What habitat do Blue Claw Yabbies live in? /1

\_\_\_\_\_

What water temperature is classed as too high for yabbies to survive in? \_\_\_\_\_°C /1

Write the definition of salinity: /1

\_\_\_\_\_

What percentage of seawater (saltwater) can a yabby survive in? \_\_\_\_\_% /1

What is the pH range to provide a safe environment for the yabbies?  
pH \_\_\_\_\_ to \_\_\_\_\_? /1

Can a yabby survive outside of water? Yes / No /3

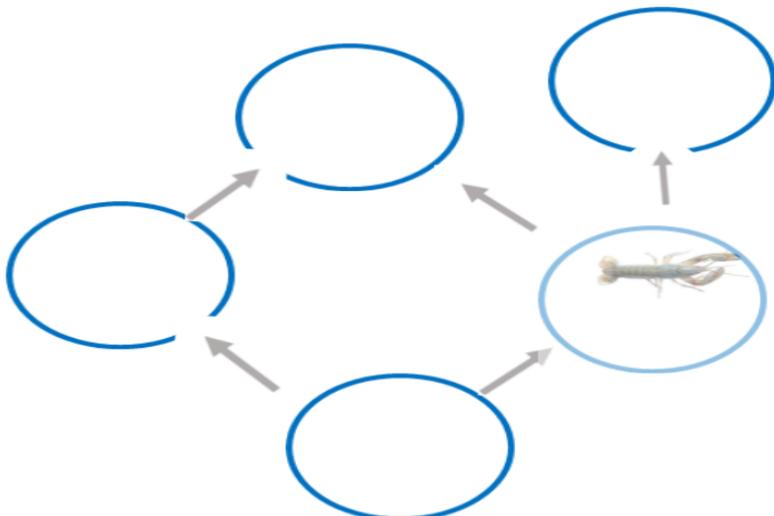
Explain: \_\_\_\_\_

\_\_\_\_\_

How many times can Narrabri Fish Farm breed the yabbies? \_\_\_\_\_ per year /1

Draw a food web for the Blue Claw Yabbies in order of the consumer. /8

Word list: yabby, human, algae, birds, small fish



Student name: \_\_\_\_\_

Create a Food Web, using as much detail as possible for a Great White Shark. /10  
*(use lines with arrows showing who is eating who, the arrows should move towards the shark up the food web)*



Student name: \_\_\_\_\_

**EXTENSION: Choose any marine species and complete the following information: /10**

**Species Common Name:** \_\_\_\_\_

**Species Scientific Name:** \_\_\_\_\_

*Habitat/Environment:*

Description:

Labelled drawing of the species:

Adaptations & Interesting facts: