



Australian Government
Great Barrier Reef
Marine Park Authority

Be a Marine Biologist for a Day

Activity Booklet
Year 8



NAME:

How can I help the Great Barrier Reef?

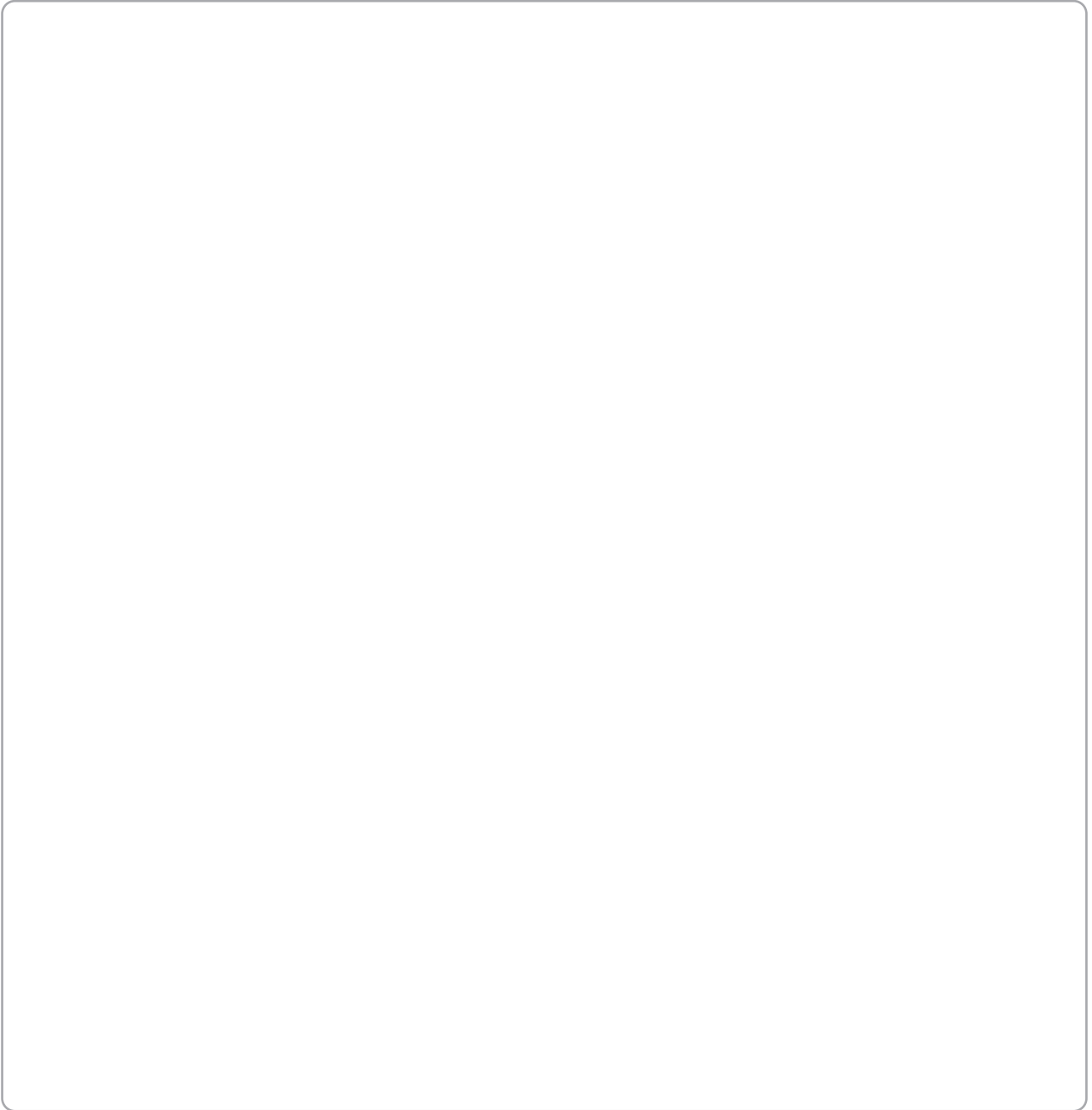
A large, empty rectangular box with rounded corners, intended for a student to write their answer to the question above. The box is completely blank and occupies most of the page's vertical space.

What is citizen science?



Sea cucumber

Draw a labelled diagram of a sea cucumber below.



How does a sea cucumber reproduce?



Giant clam

>30cm

Draw a labelled diagram of a giant clam in the box below.



How do giant clams reproduce?



Can giant clams see?



How many holes (siphons) are there in a giant clam?



Anemonefish

Draw a labelled diagram of an anemonefish below.



How do anemonefish reproduce?



Butterflyfish

Draw a labelled diagram of a butterflyfish below.



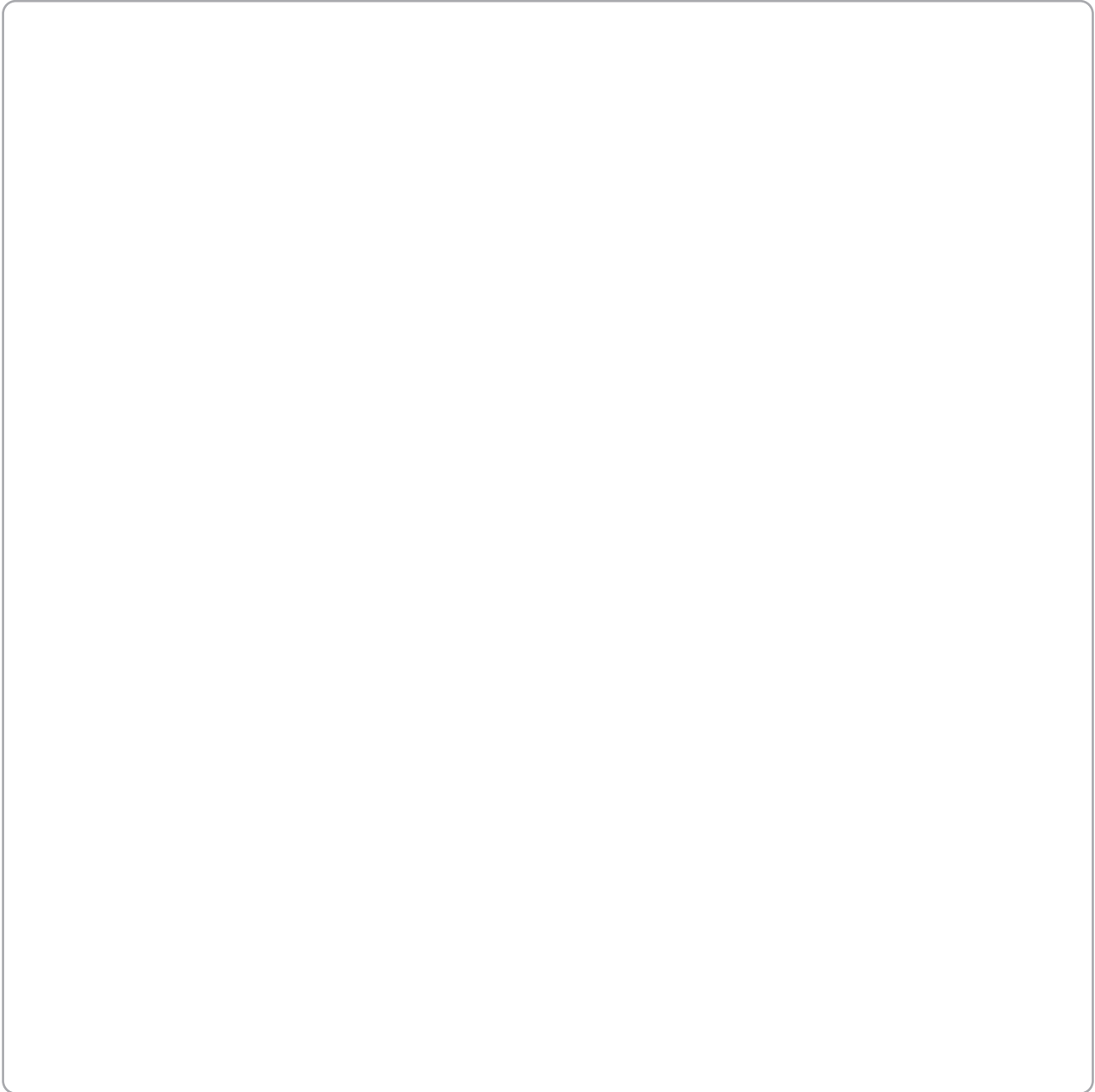
Do all butterflyfish form pairs?

How do butterflyfish reproduce?

Grazing herbivores

Parrotfish / Surgeonfish / Unicornfish / Rabbitfish

Draw a labelled diagram of a grazing herbivore below.



How is the digestive system of a herbivore (e.g. teeth, mouth size, length of intestine) different to a carnivore?



Cods and groupers

>50cm

Draw a labelled diagram of a cod or grouper below.



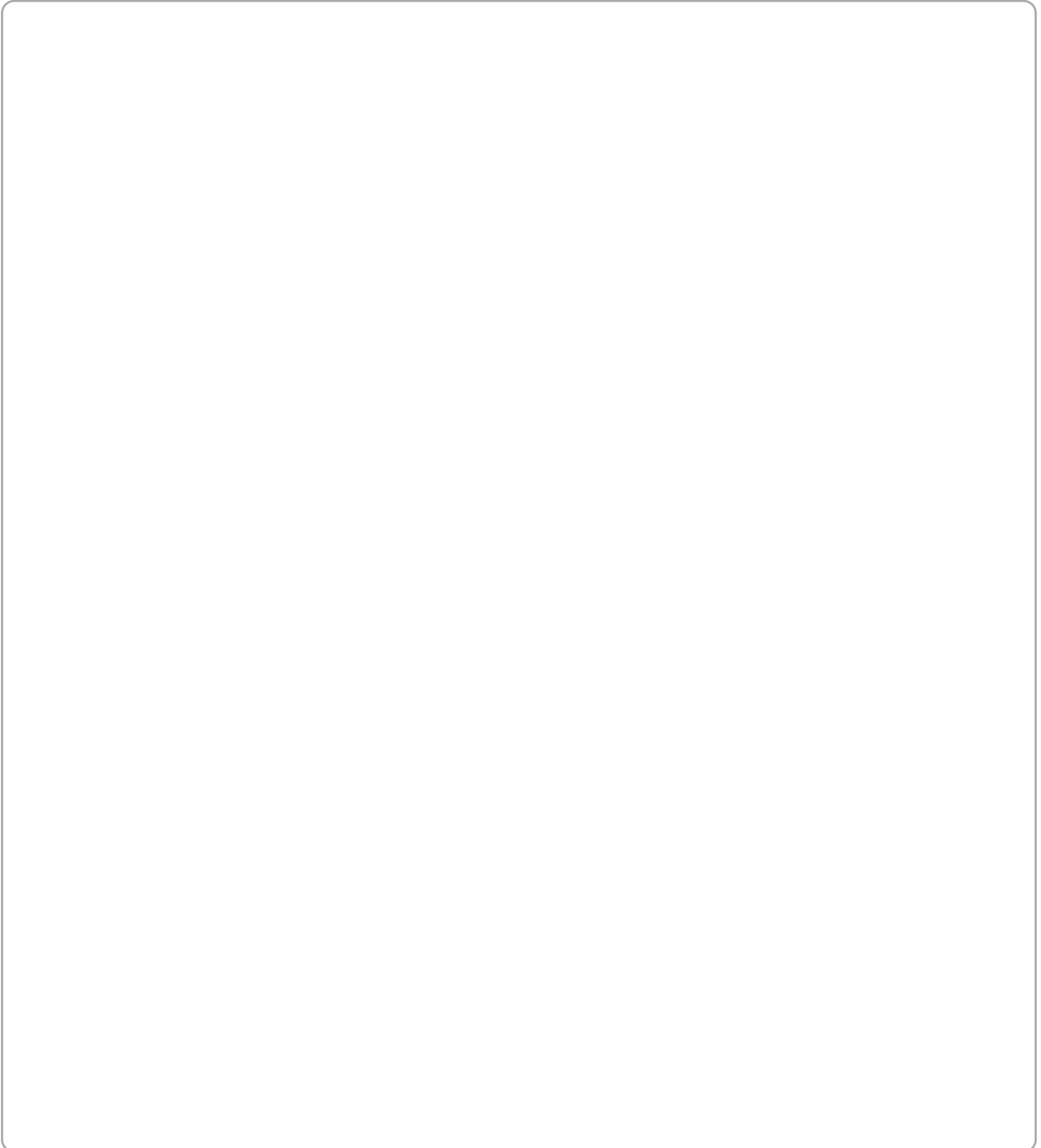
How does a cod or grouper find a mate to reproduce?



Coral trout

<38cm / >38cm

Draw a labelled diagram of a coral trout in the box below.



What size do coral trout change from female to male?



Maori wrasse

Male / Female

Draw a labelled diagram of a male Maori wrasse below.



Where do Maori wrasse live?



What happens if people touch a Maori wrasse?



Sea turtles

Green / Hawksbill / other

Draw a labelled diagram of a green turtle head and shell.



When is turtle breeding season?

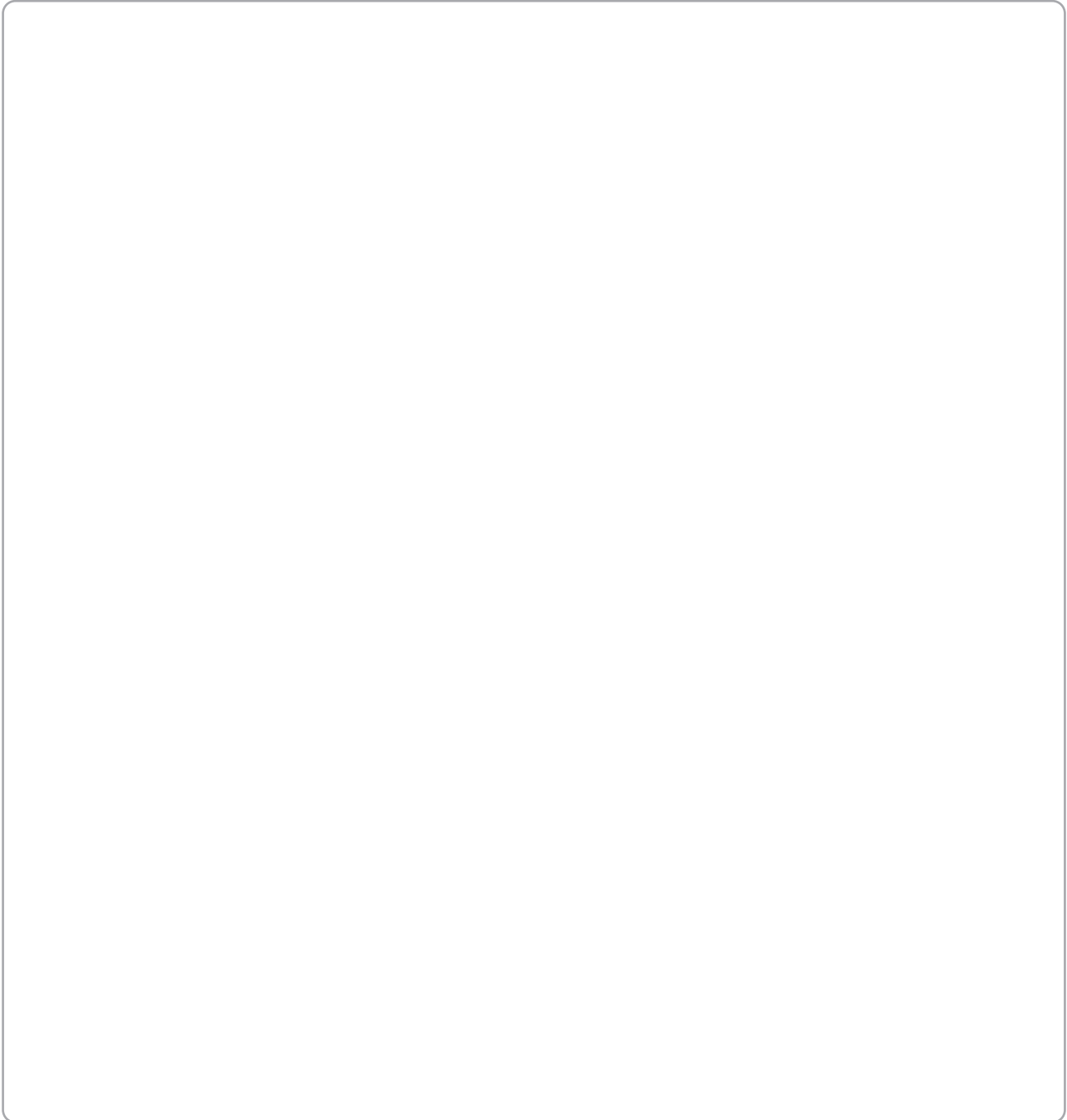
How many sea turtles are threatened with extinction?

What do sea turtles eat that look like jellyfish?

Sharks

Whitetip / Blacktip / other

Draw a labelled diagram of a great white shark.



How can you tell the difference between a male and female shark?



QUIZ ANSWER SHEET

SCORE: _____

Question	Answer	✓×
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Complete this table with your Reef Guide after counting the animals on the reef.

Rapid Monitoring

Queensland GOVERNMENT
 Australian Commonwealth
 Great Barrier Reef
 Marine Park Authority

EYE ON THE REEF
 EYES REEFERS

Observer name: Phone: Date:

Email: Organisation: Time:

Vessel: Observer category: Reef Marine tourism Fisher Traditional owner
(pick one)

Number of visits to a reef: Survey experience Other
(approximate number of surveys completed) (please specify)












Reef ID (e.g. 16-023): Reef name: Site:

Centre of survey: Lat: S Long: E Marine Park Zone:
Tick one GPS type (examples over page) Decimal Degrees (preferred) Degrees Min Sec Water temperature: °C

Survey type (tick one): Snorkel Dive Viewing bucket Survey depth: metres

Habitat type (circle one)	Flood plume (circle one)	Suspended algal bloom (circle one)	Tide at survey (circle one)	Visibility (circle one)
LAGOON FLAT CREST SLOPE	YES NO	YES NO	LOW MED HIGH	<5m 5-10m >10m

Complete this table with your Reef Guide after counting the animals on the reef.

Timed swim (10 minutes)		See over page for survey methodology				
ANIMALS	TALLY	TOTAL	ANIMALS	SIZE	TALLY	TOTAL
Sea cucumber (all species) 			Coral trout (all species) 	<38cm >38cm		
Giant clam (larger than size of hand) 			Maori wrasse 	SEX Male Female		
Anemonefish (all species) 			Turtle (all species) 	TYPE Green Turtle* Hawksbill Turtle* Other (please name)		
Butterflyfish (all species) 			Shark (all species) 	Whitetip reef shark Blacktip reef shark Other (please name)		
Grazing herbivores See definition over page 			Crown-of-thorns starfish 	Juvenile Adult		
Cods and groupers (over 50cm in length) 						

Complete back at school after your excursion.

***How did I help the
Great Barrier Reef?***

Below, draw a picture or write about your day on the Reef!

A large, empty rectangular box with rounded corners, intended for a student to draw a picture or write about their day on the reef. The box is completely blank and occupies most of the page's vertical space.