



Australian Government
Great Barrier Reef
Marine Park Authority

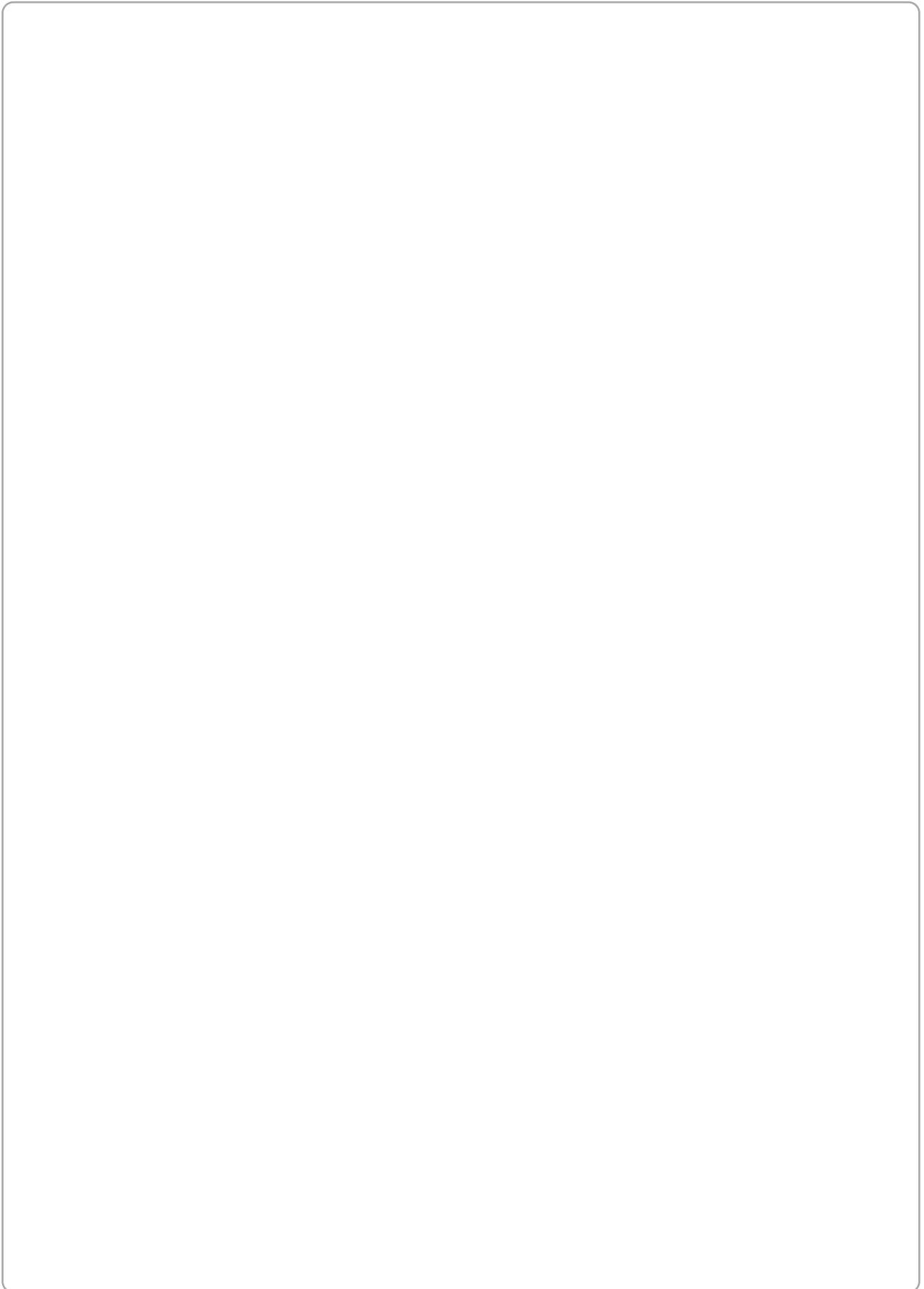
Be a Marine Biologist for a Day

Activity Booklet
Year 10



NAME:

How can I help the Great Barrier Reef?



What is citizen science?



Sea cucumber

Draw a labelled diagram of a sea cucumber below.



What is the role of DNA in the process of regenerating lost body parts?



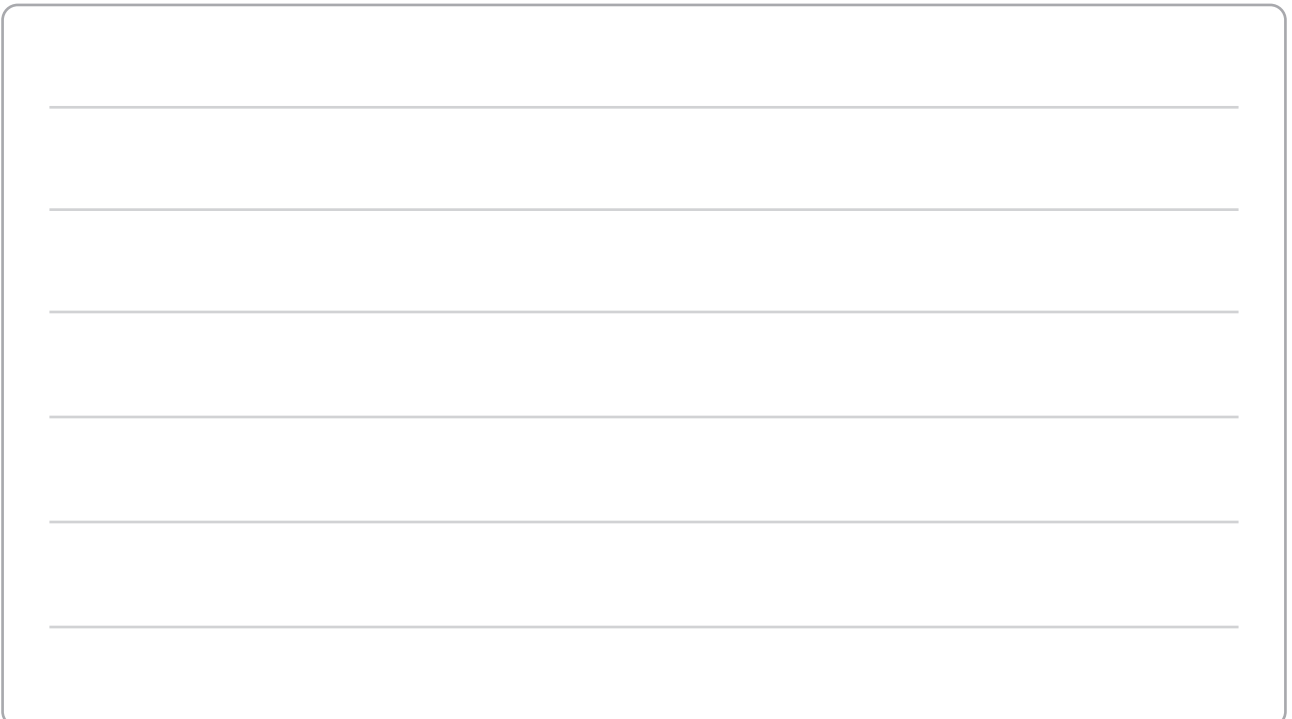
Giant clam

>30cm

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

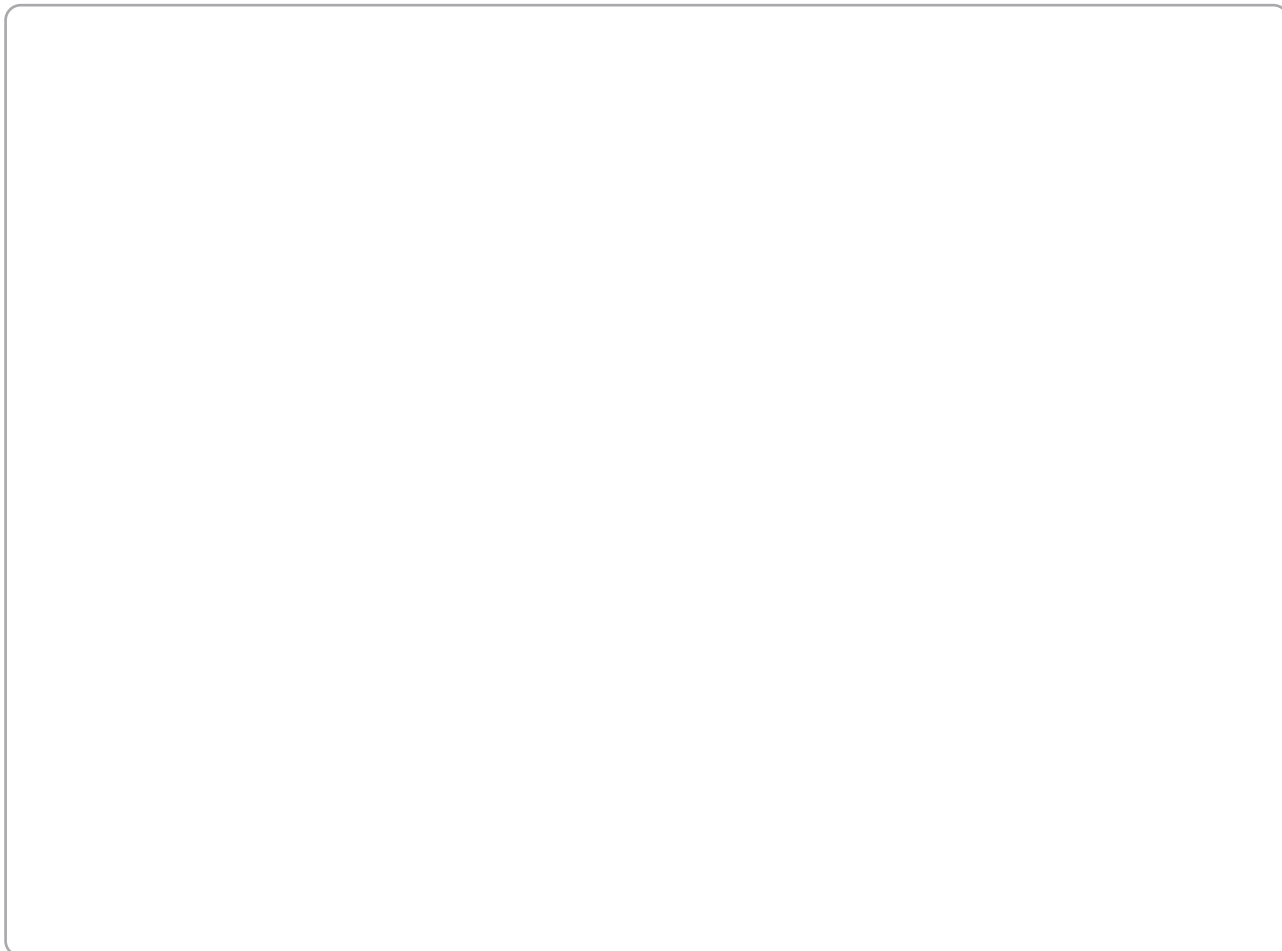


What causes giant clams to bleach? Explain.



Anemonefish

Draw a labelled diagram of an anemonefish below.



Anemonefish are hermaphrodites. What does this mean?



Butterflyfish


Draw a labelled diagram of a butterflyfish below.



What is the reason for the fake eyespot?



What do butterflyfish eat?



Grazing herbivores

Parrotfish / Surgeonfish / Unicornfish / Rabbitfish

Draw a labelled diagram of a grazing herbivore below.



Why is it important to have grazing herbivores?



What colour and size is brown macroalgae?



Cods and groupers

>50cm

Draw a labelled diagram of a cod or grouper below.



Are Queensland grouper, potato cod and barramundi cod protected in the Great Barrier Reef Marine Park?

What should you do if you catch one?

Coral trout

<38cm / >38cm

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



What is the legal size of a coral trout?



What penalties apply for keeping an undersize fish?



Why is it bad to eat extra large reef fish?



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.



How many sea turtles are threatened with extinction?

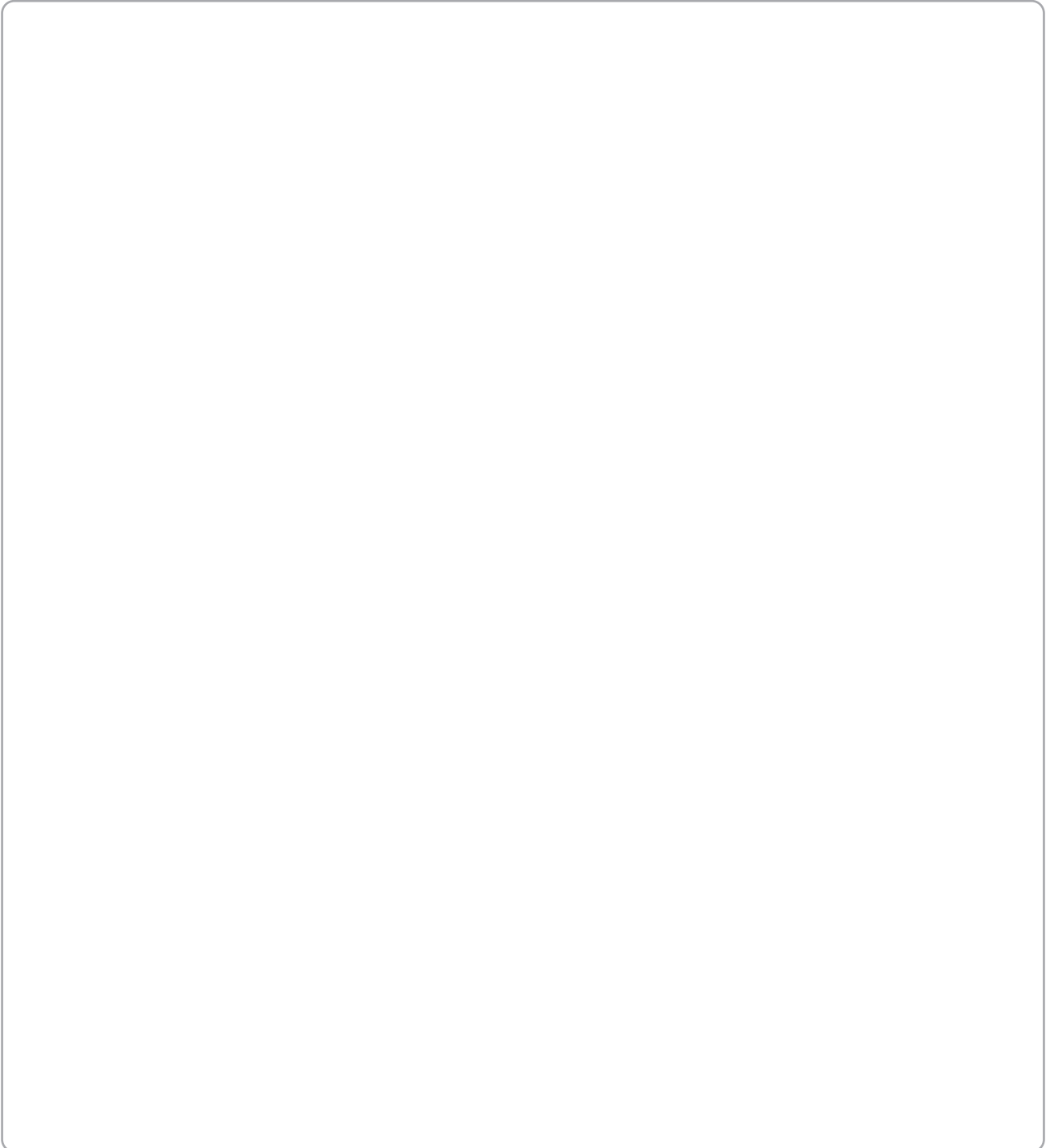
What do sea turtles like to eat that look like jellyfish?

For every kilogram of plankton in the Great Pacific Garbage Patch, how many kg is plastic? 1, 2, 3 or 6kg?

Sharks

Whitetip / Blacktip / other

Draw a labelled diagram of a great white shark.



How many chromosomes does a great white shark have?

QUIZ ANSWER SHEET

SCORE: _____

Question	Answer	✓×
1		
2		
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30		

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

Rapid Monitoring

Queensland GOVERNMENT
 Australian Commonwealth Coast Service Reef Marine Park Authority
 EYE ON THE REEF
 REEF MONITORING

Observer name: Phone: Date:

Email: Organisation: Time:

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

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












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 Decimal Mins Degrees Min Sec Water temperature: °C

Survey type (pick 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.