



Australian Government
Great Barrier Reef
Marine Park Authority

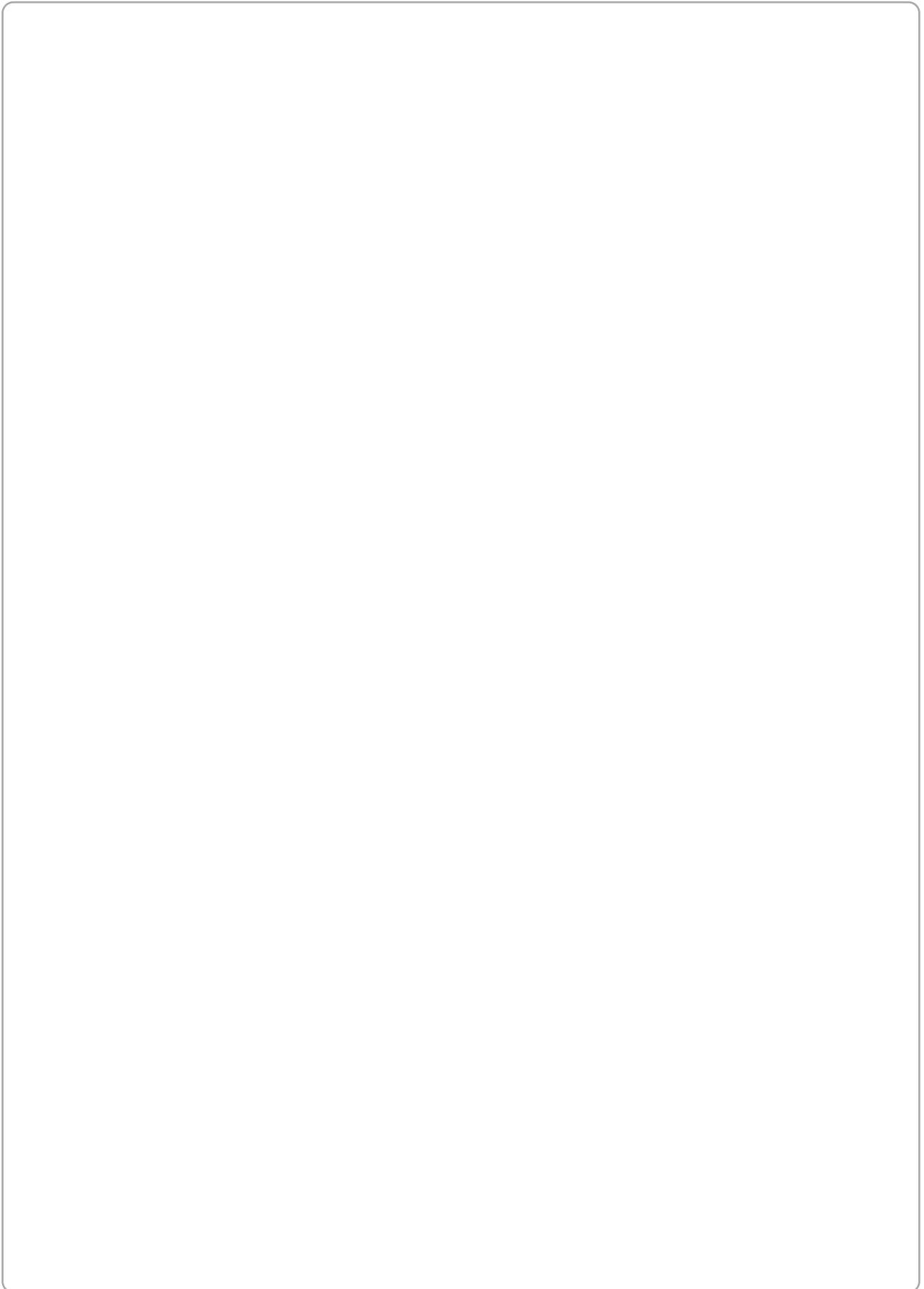
Be a Marine Biologist for a Day

Activity Booklet
Year 7



NAME:

How can I help the Great Barrier Reef?

A large, empty rectangular box with rounded corners, intended for students to write their answers 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.



What eats a sea cucumber?



What do echinoderms all have in common?



What and how does a sea cucumber eat?




Giant clam

>30cm

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

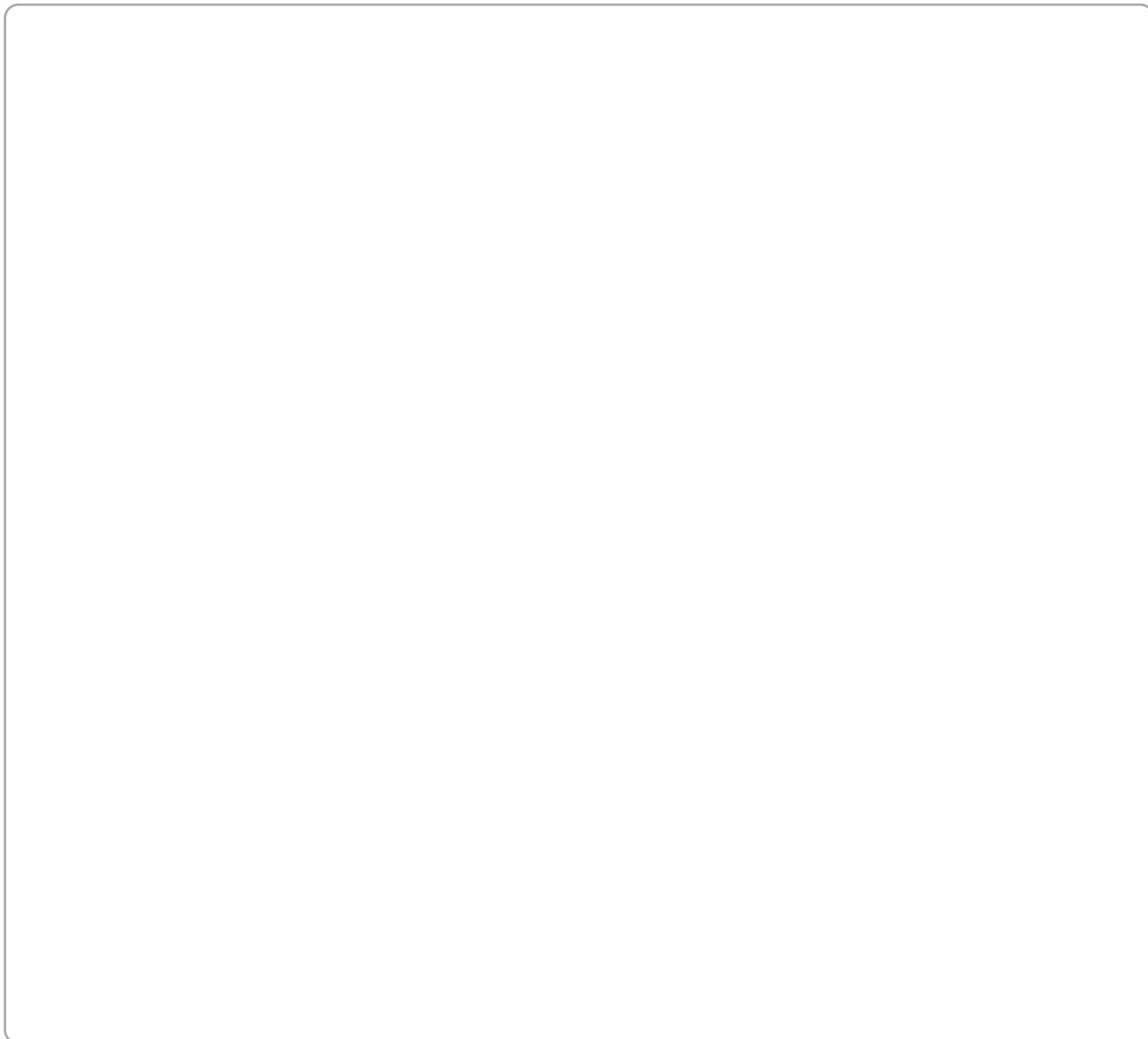


Why does algae (zooxanthellae) live in the mantle of a giant clam?




Anemonefish

Draw a labelled diagram of an anemonefish below.



If anemones and jellyfish are both cnidarians, what do they have in common?



Butterflyfish

Draw a labelled diagram of a butterflyfish below.



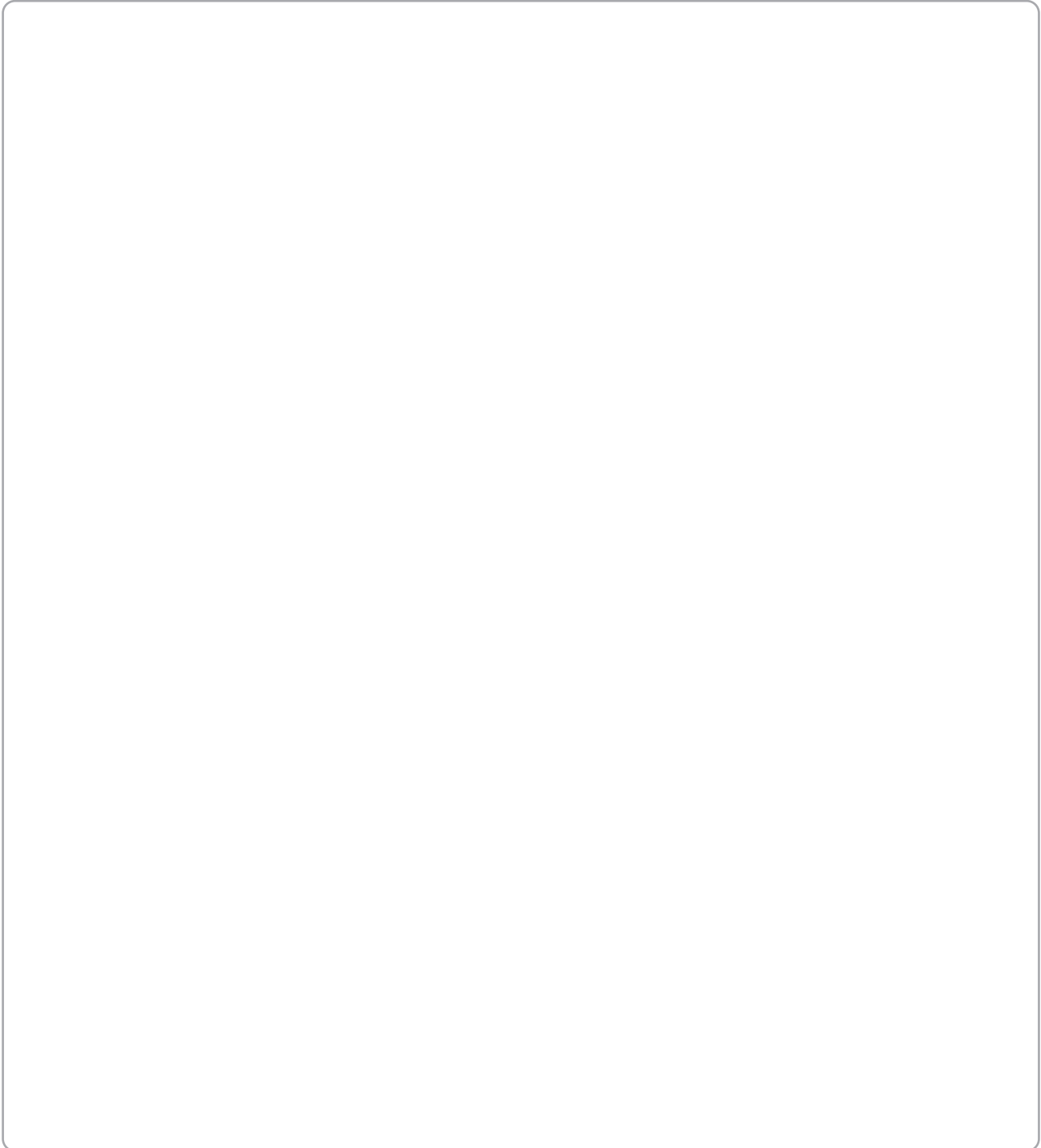
What is the reason for the fake eye spot?

What do butterflyfish eat?

Grazing herbivores

Parrotfish / Surgeonfish / Unicornfish / Rabbitfish

Draw a labelled diagram of a grazing herbivore below.



Why are they called the lawnmowers of the Reef?



Cods and groupers

>50cm

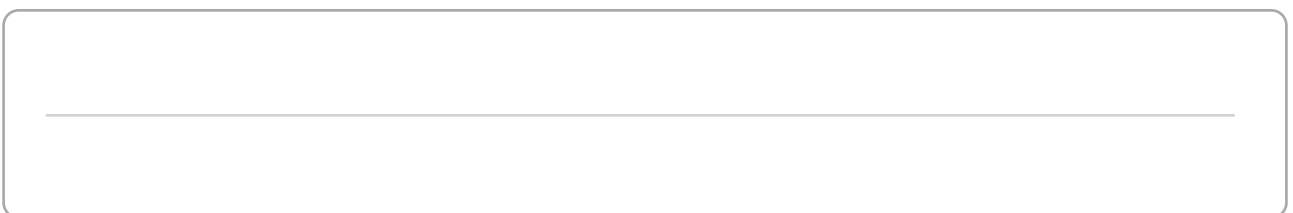
Draw a labelled diagram of a cod or grouper below.



Why do organisms have a common and scientific name?



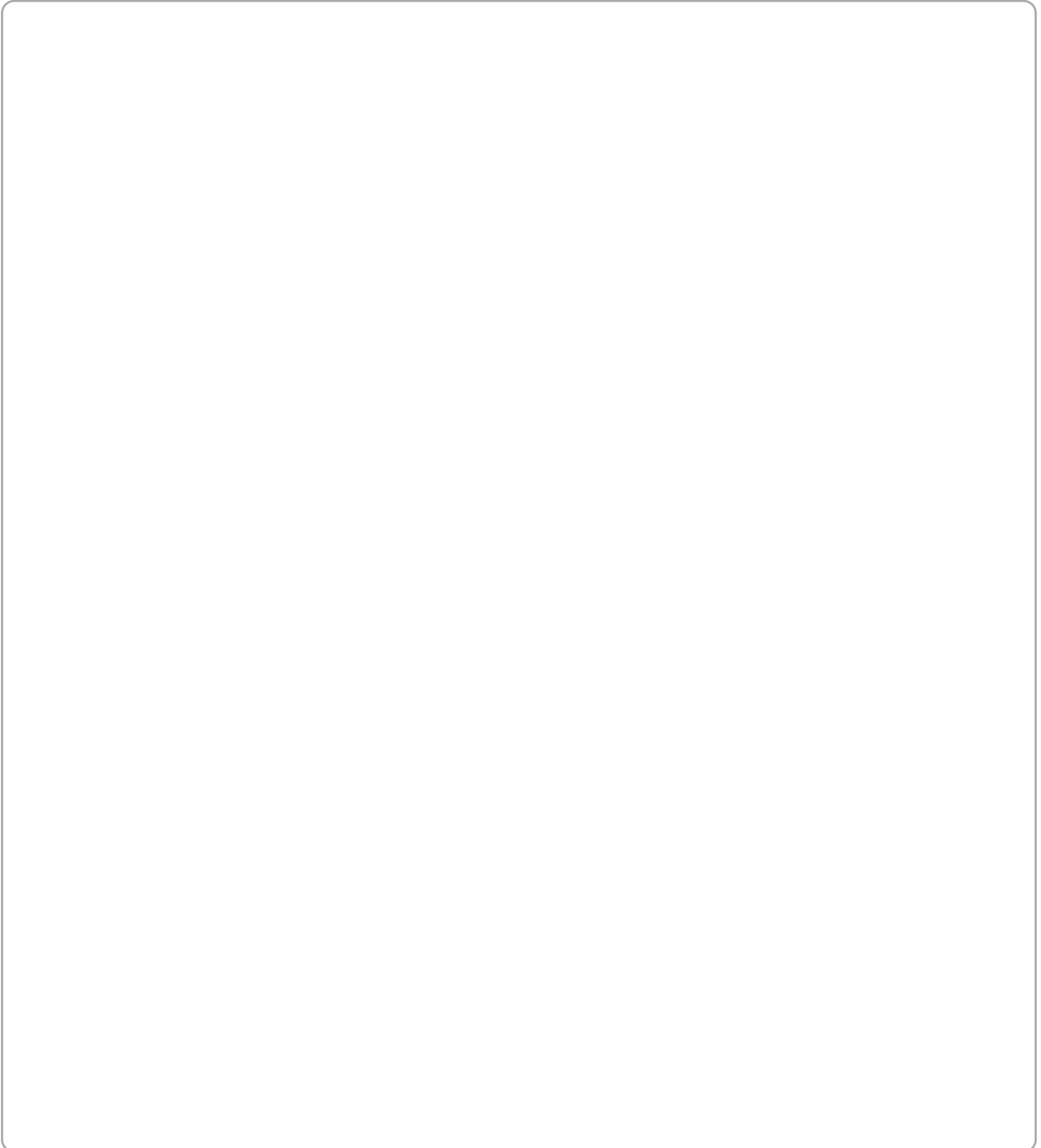
How do cod and grouper hunt?



Coral trout

<38cm / >38cm

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



Lots of people eat coral trout. What is the legal size?




Maori wrasse

Male / Female

Draw a labelled diagram of a male Maori wrasse below.



What is the difference between and female and a male?



Why are they endangered?



Sea turtles

Green / Hawksbill / other

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



How many sea turtles are threatened with extinction?

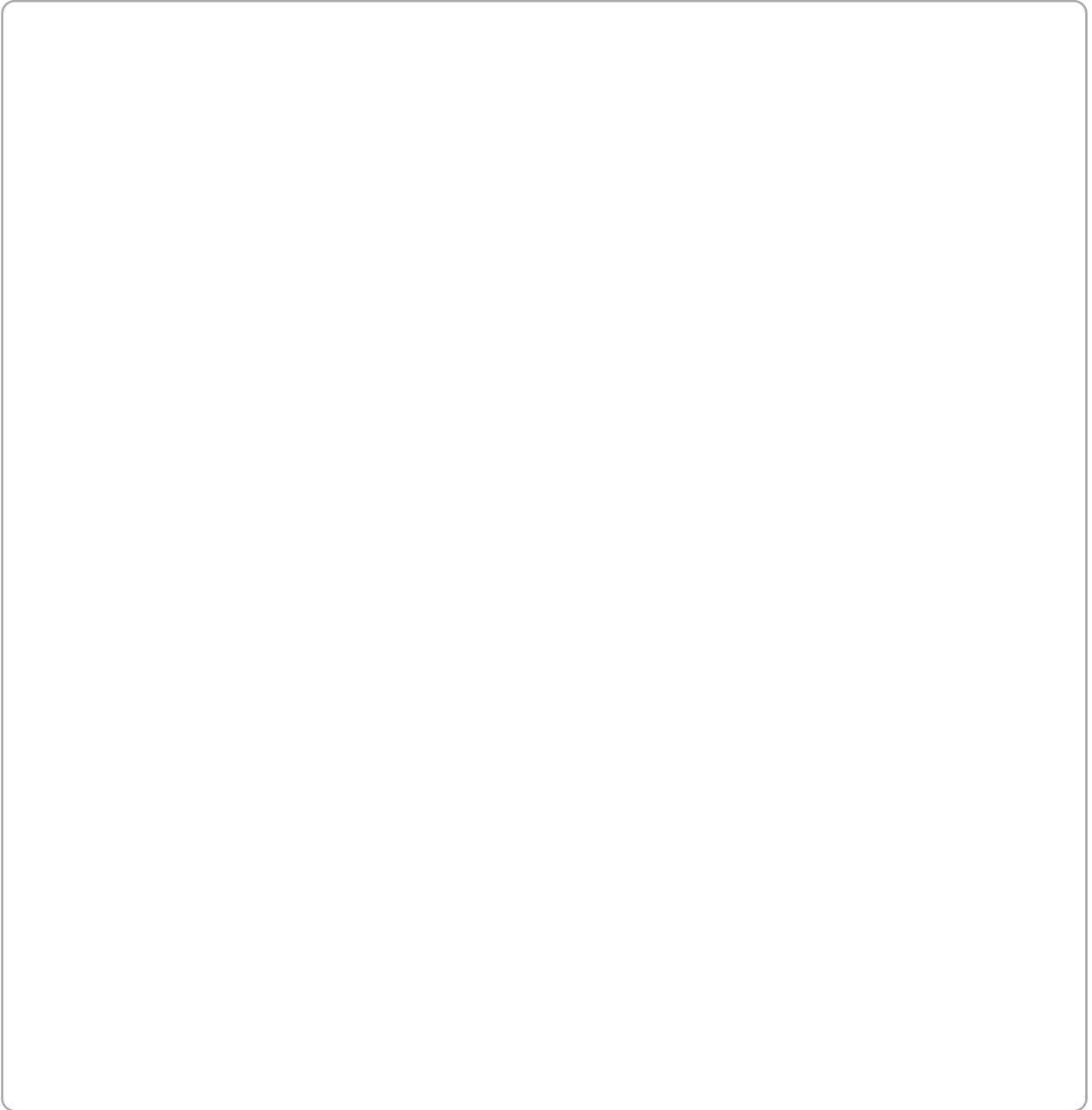
What do sea turtles like to eat that look like jellyfish?

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.



Where are sharks positioned in the food chain?




QUIZ ANSWER SHEET


SCORE: _____

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



EYE ON THE REEF
EYES REEFERS



Queensland
GOVERNMENT

Marine Park Authority
Queensland Conservation
Coast Service Reef
Marine Park Authority

Rapid Monitoring

Observer name: Phone: Date:

Email: Organisation: Time:

Vessel: Observer category: Reef Marine tourism Fisher Traditional owner

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

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

Centre of survey: Lat: S E Long: S E Marine Park Zone:

Tick one GPS type (examples over page) Decimal Degrees (preferred) Degrees Decimal Mins Degrees Min Sec












Survey type (tick one): Snorkel Dive Viewing bucket

Water temperature: °C

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!

