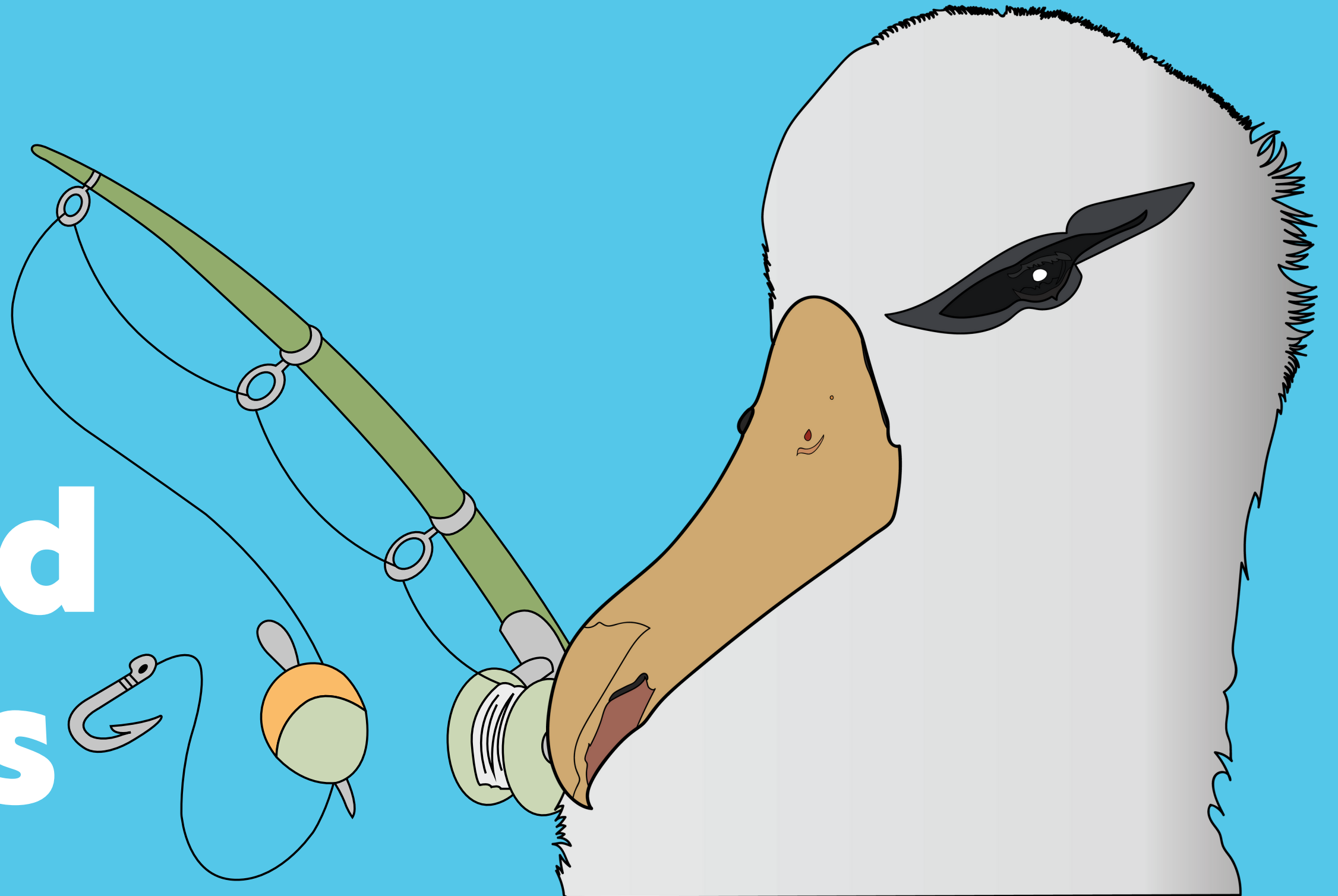




CONSERVATION EDUCATION
ALBATROSSES AND PETRELS

Lesson 2

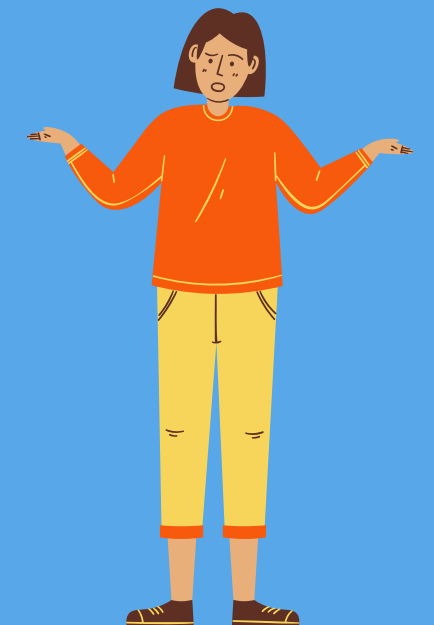
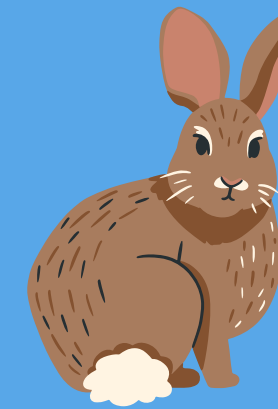
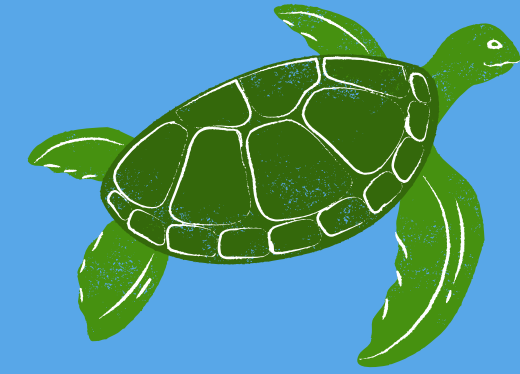
Fishing and food webs



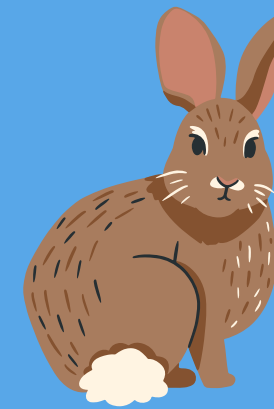
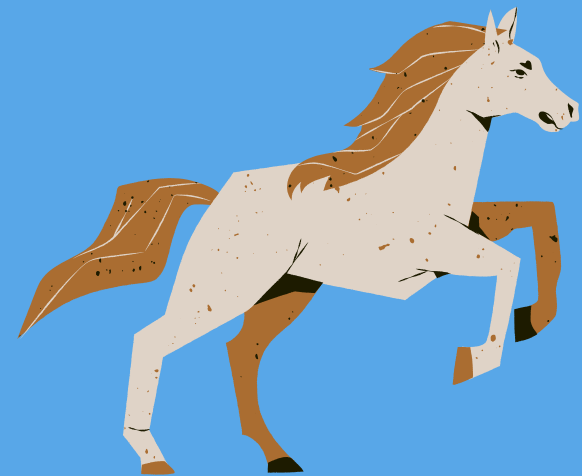
Fishing and seabirds



What do animals eat?

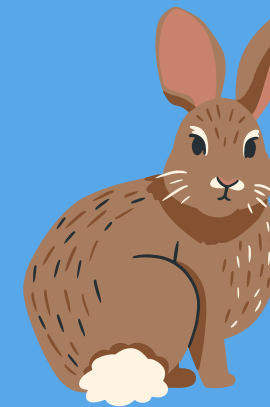


What do animals eat?

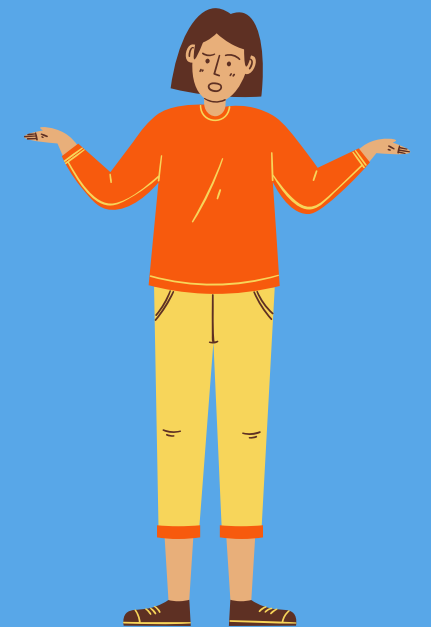
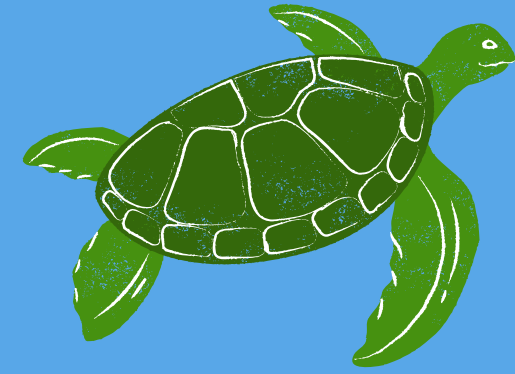


What do animals eat?

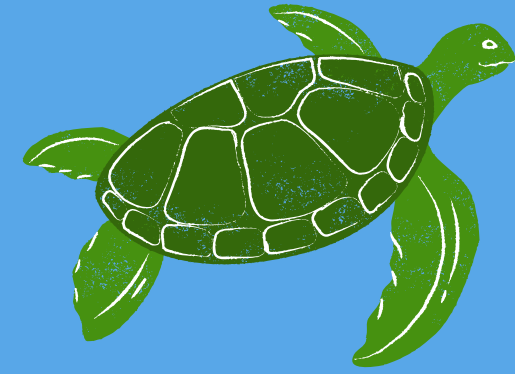
Herbivore



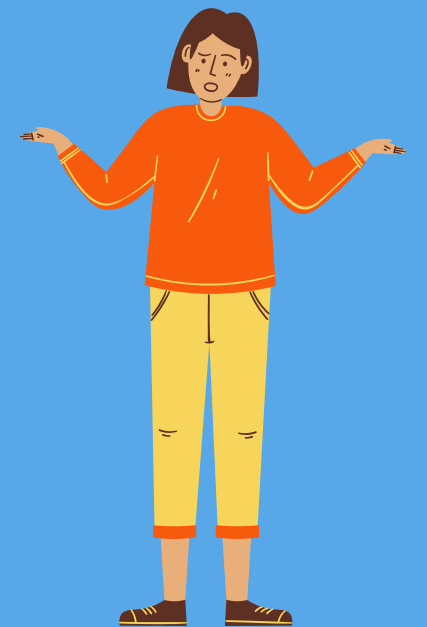
What do animals eat?



What do animals eat?



Omnivore



What do animals eat?



What do animals eat?

Carnivore or predator

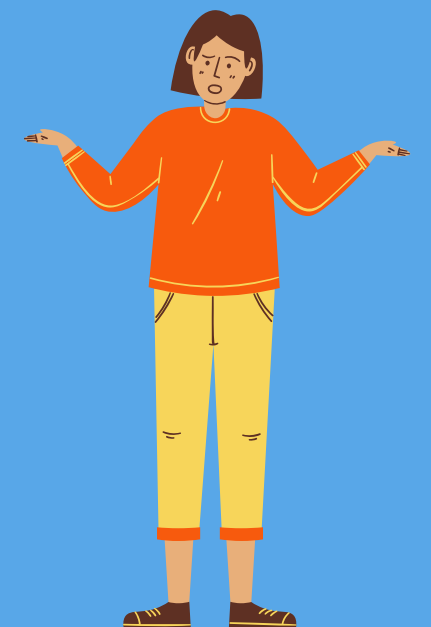
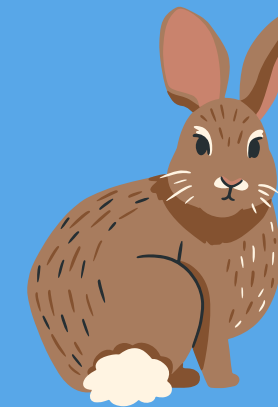
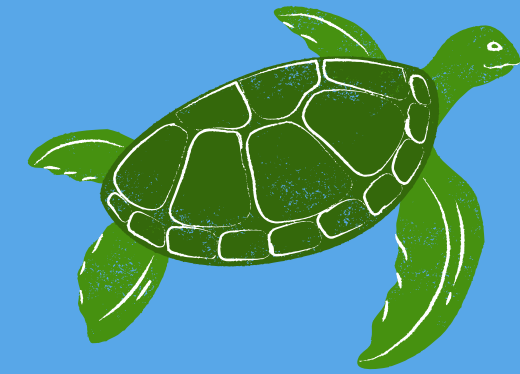


What do animals eat?

Carnivore or predator

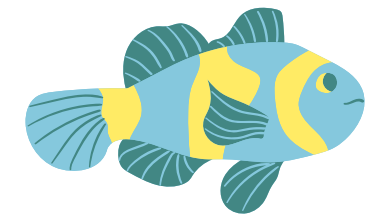
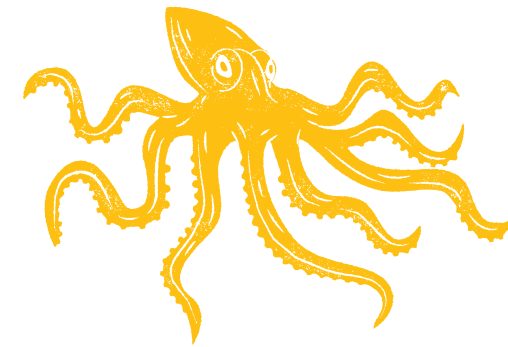
Herbivore

Omnivore

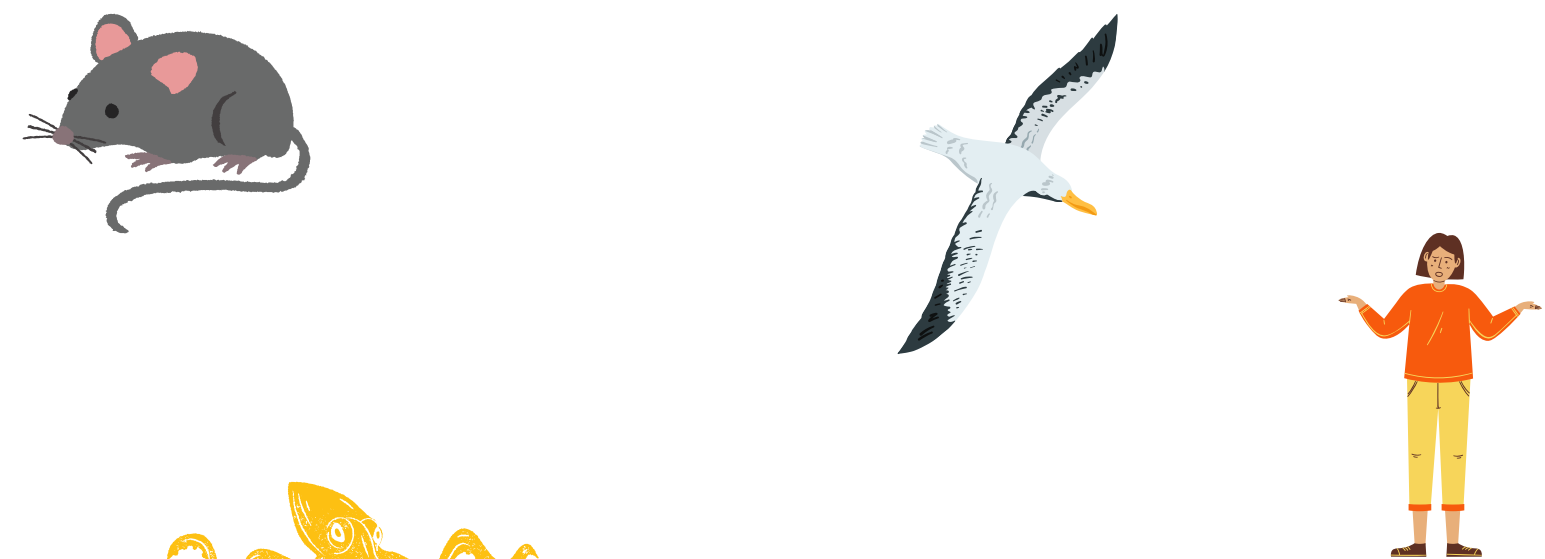


What do albatrosses and petrels eat?

Carnivore or predator

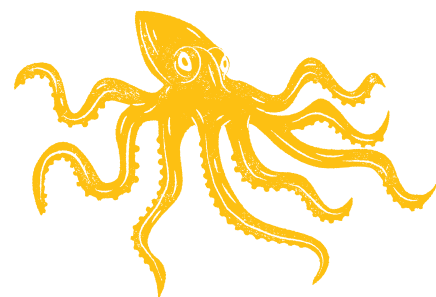


Seabird food web



trophic level?

diet?



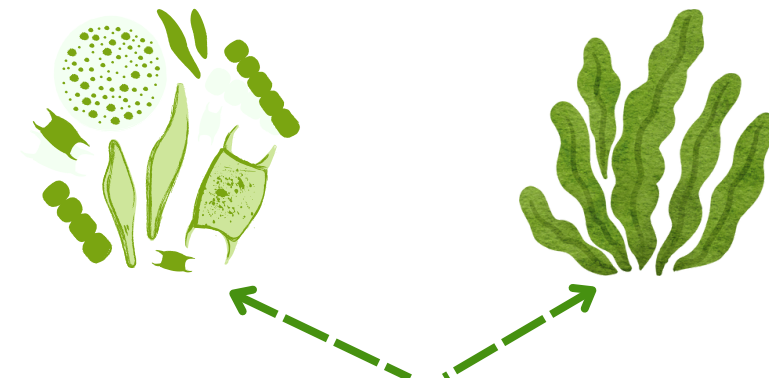
trophic level?

diet?

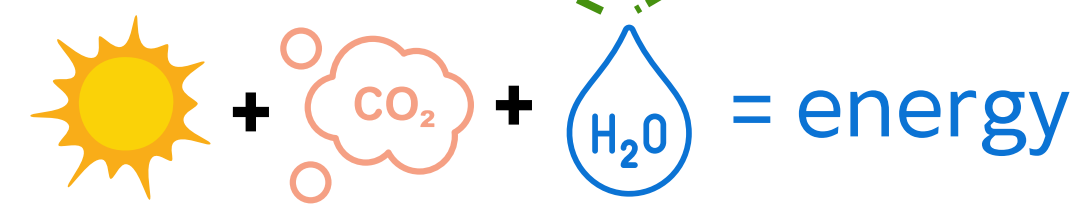


trophic level?

diet?



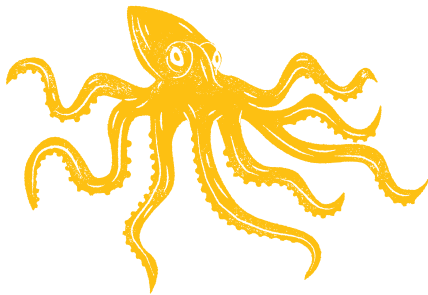
process?



Seabird food web

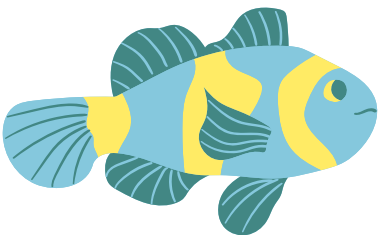
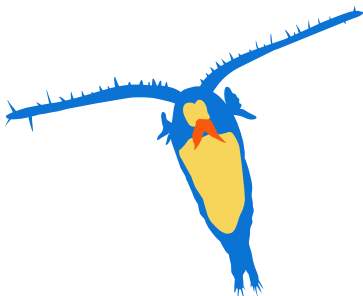


trophic level?



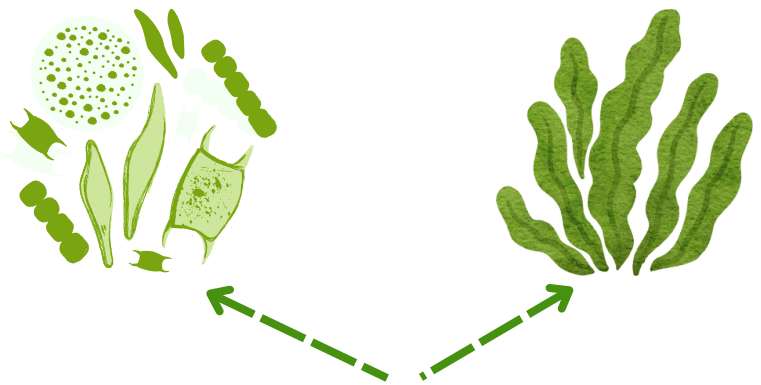
diet?

trophic level?



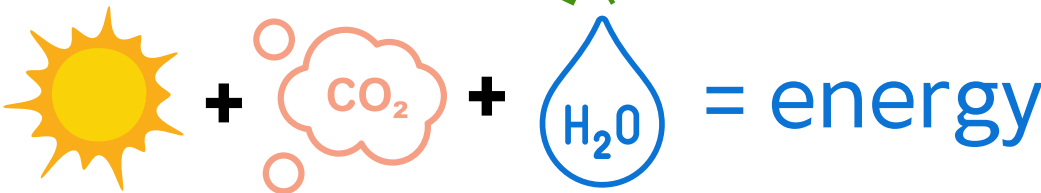
diet?

primary producers

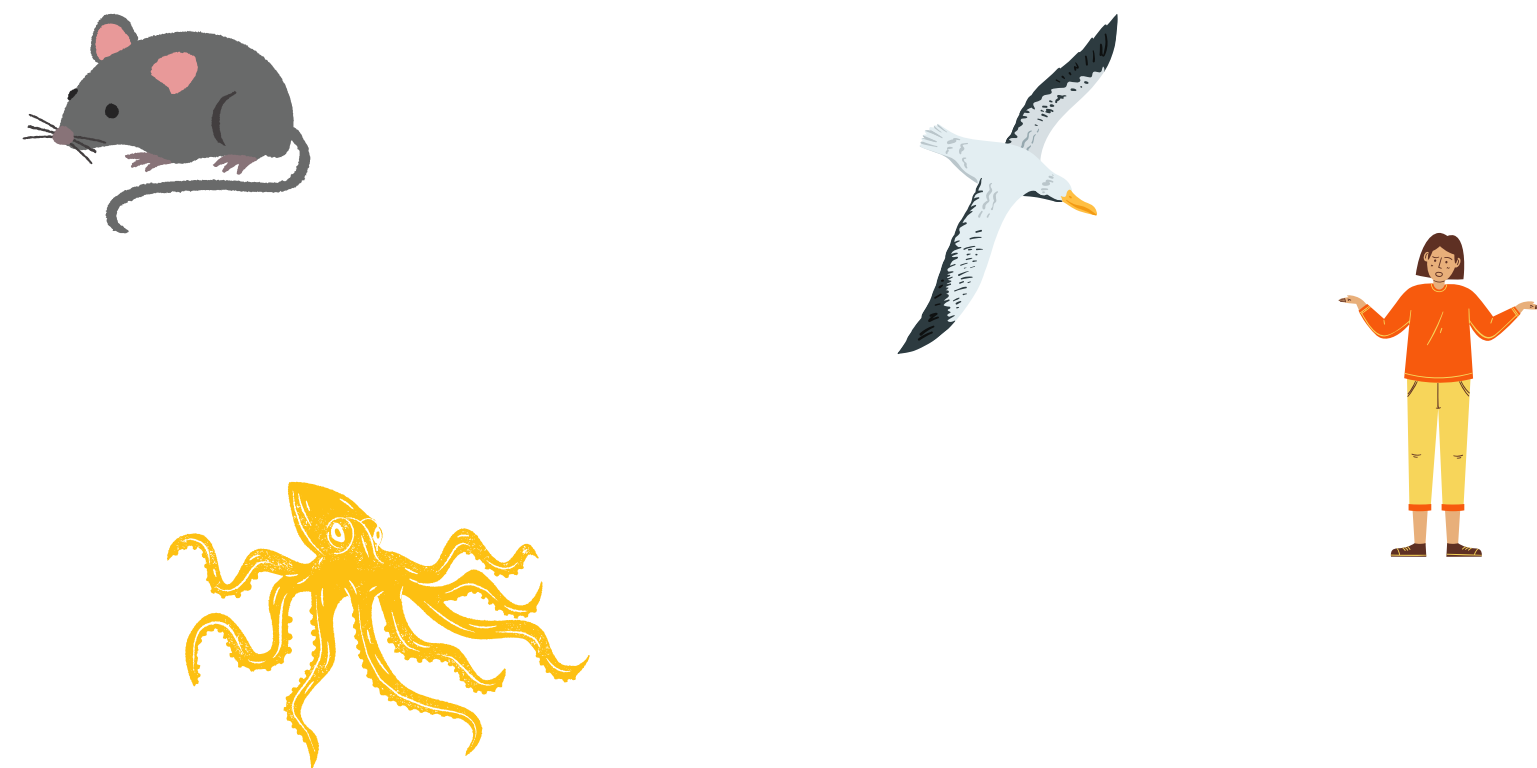


autotrophs

photosynthesis



Seabird food web

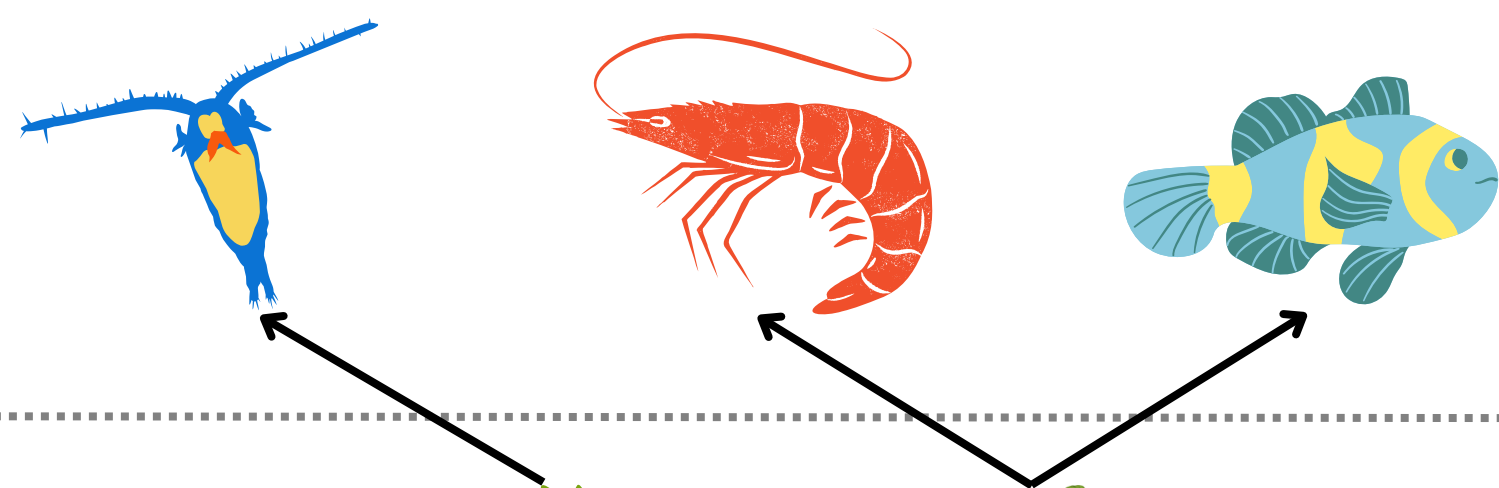


trophic level?

diet?

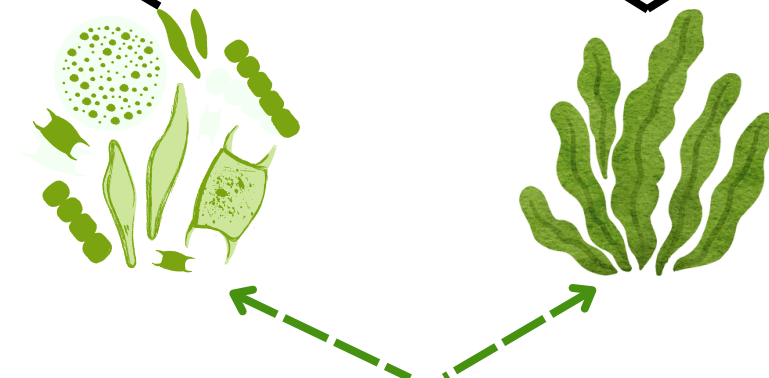
primary consumers

herbivores

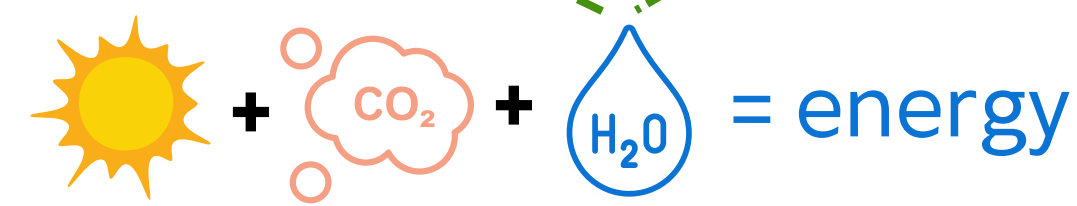


primary producers

autotrophs

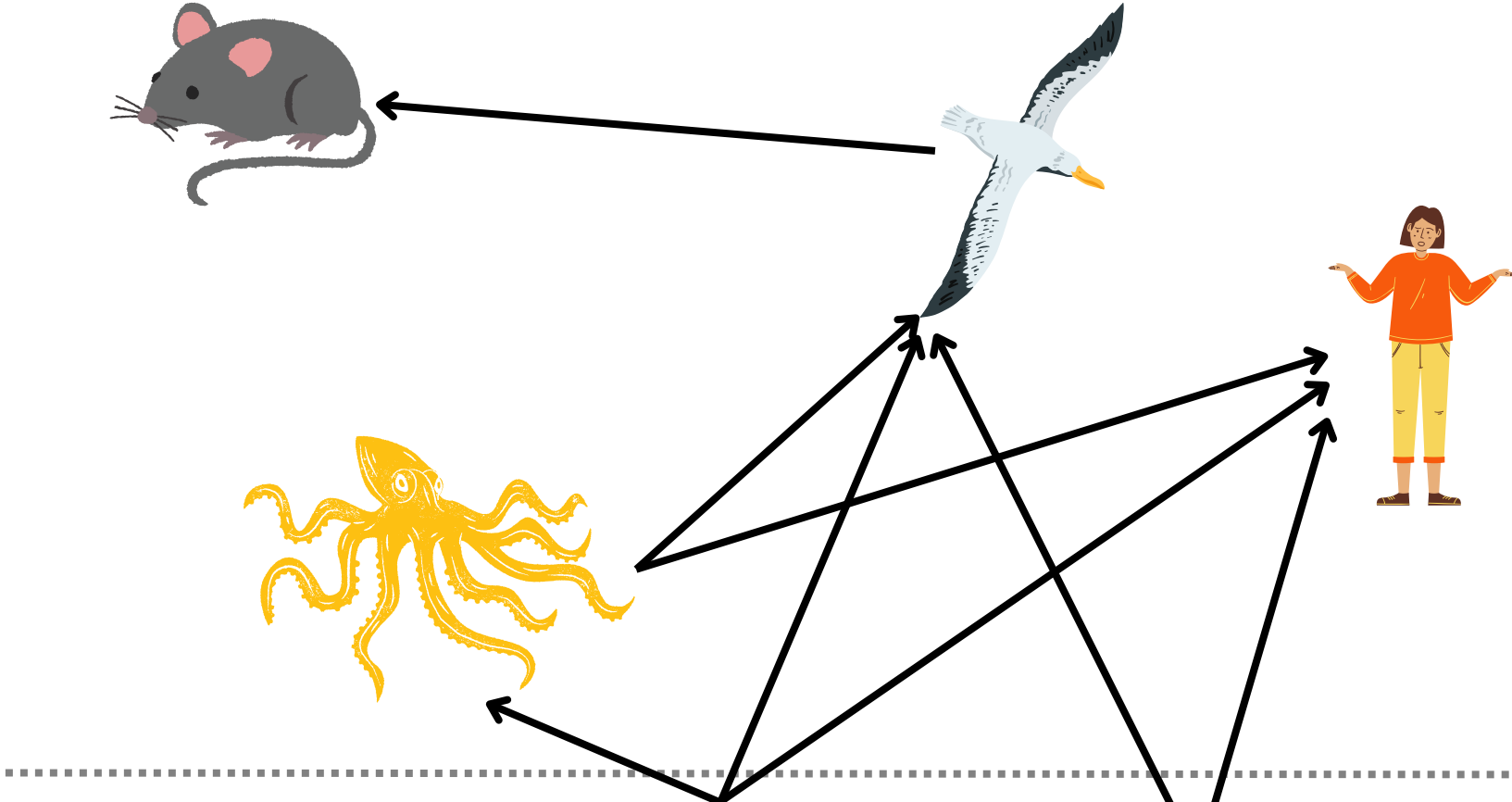


photosynthesis



Seabird food web

secondary, tertiary and quarternary consumers



omnivores, carnivores or predators

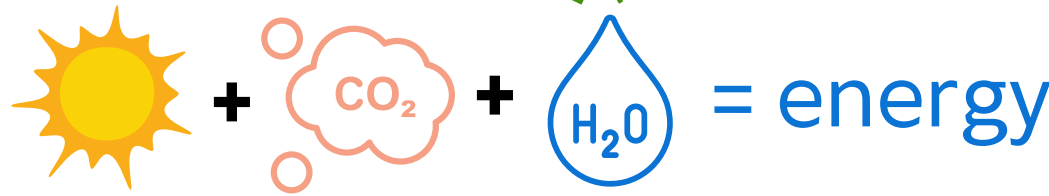
primary consumers

herbivores

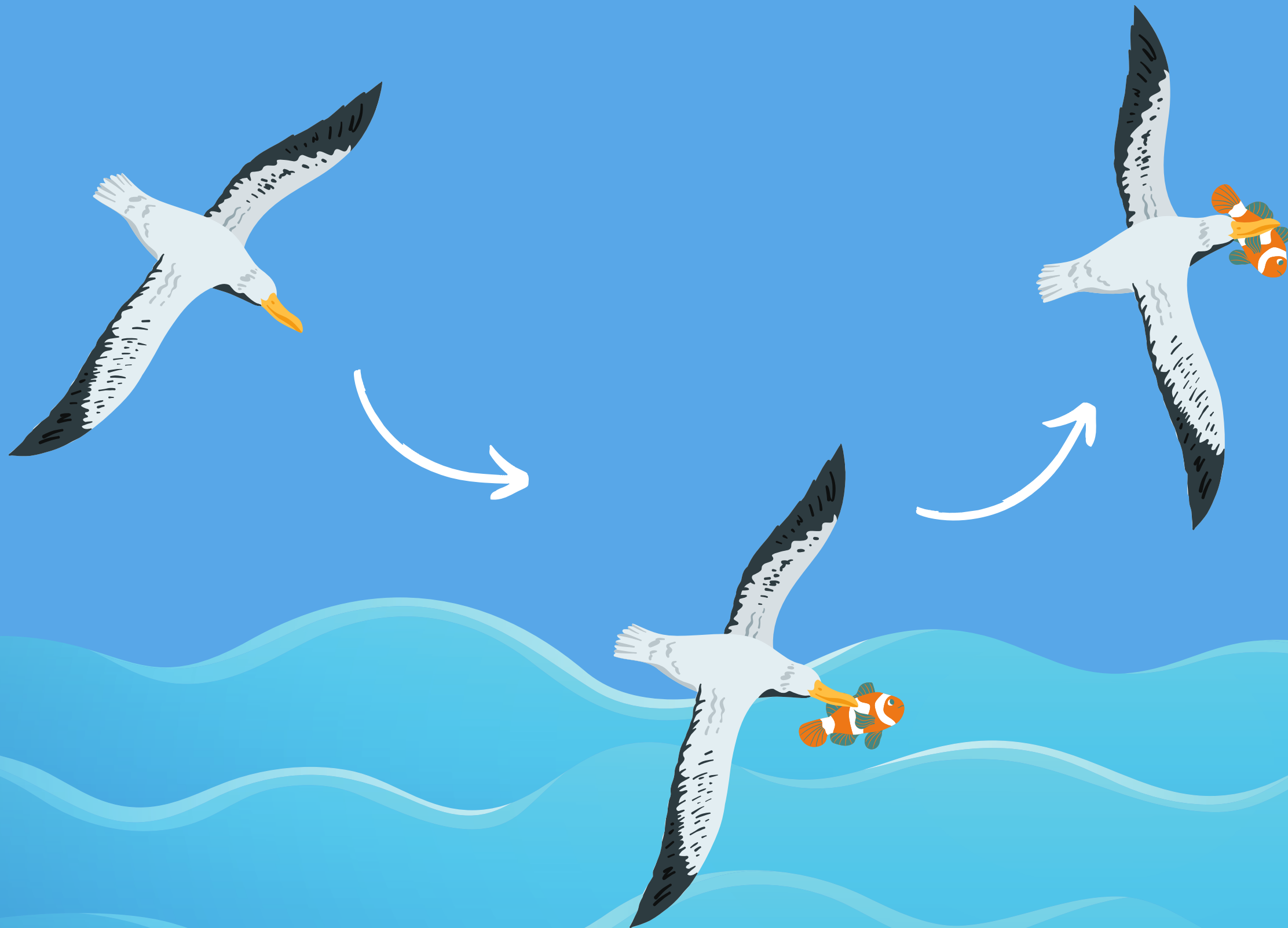
primary producers

autotrophs

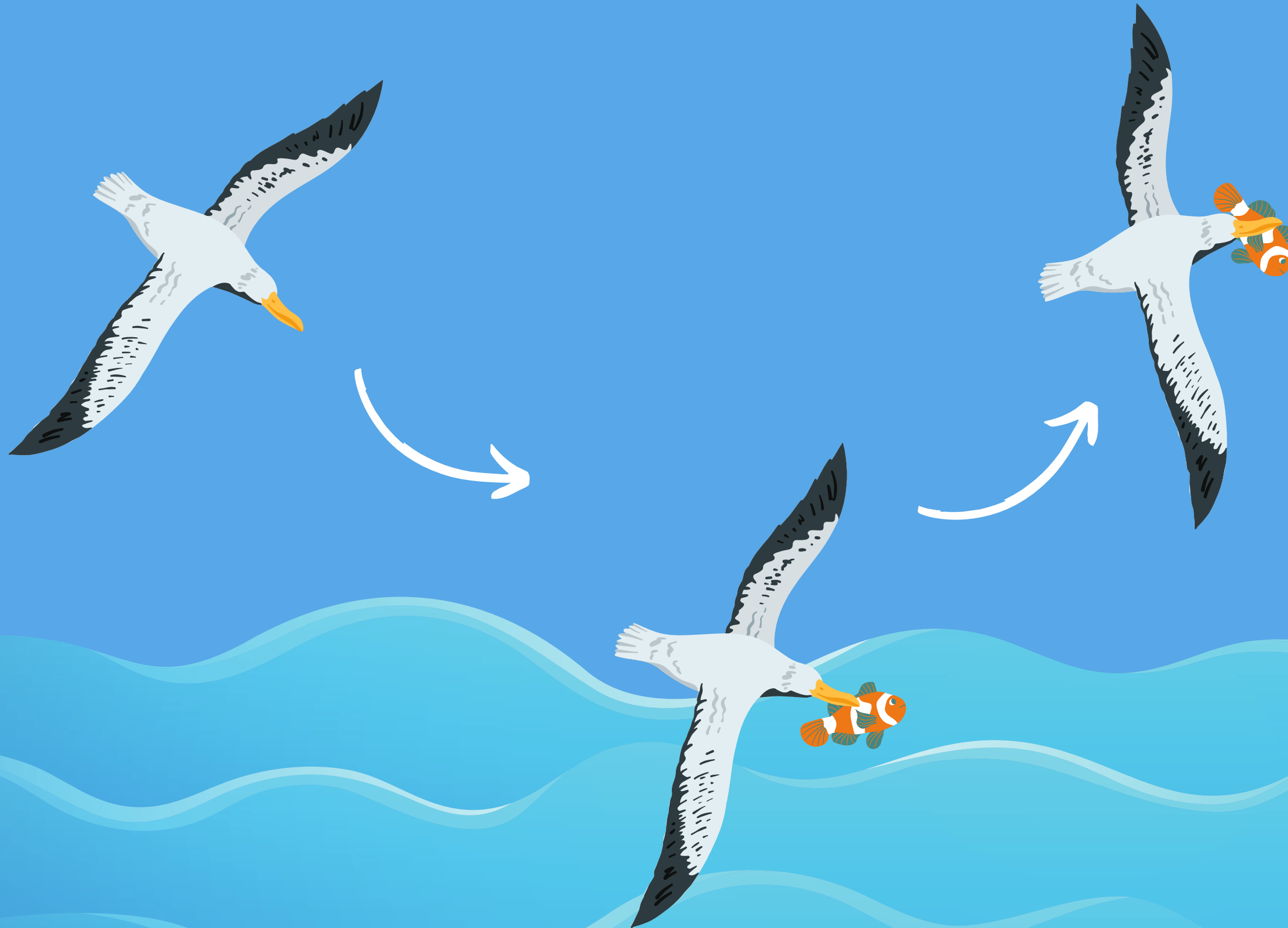
photosynthesis



How do seabirds catch their food from the sea?



How do seabirds catch their food from the sea?



Smell food using tubenoses

Soar over ocean

Dive for food (down to 35 metres!)

Eat or take to chicks

How do we catch our food from the sea?



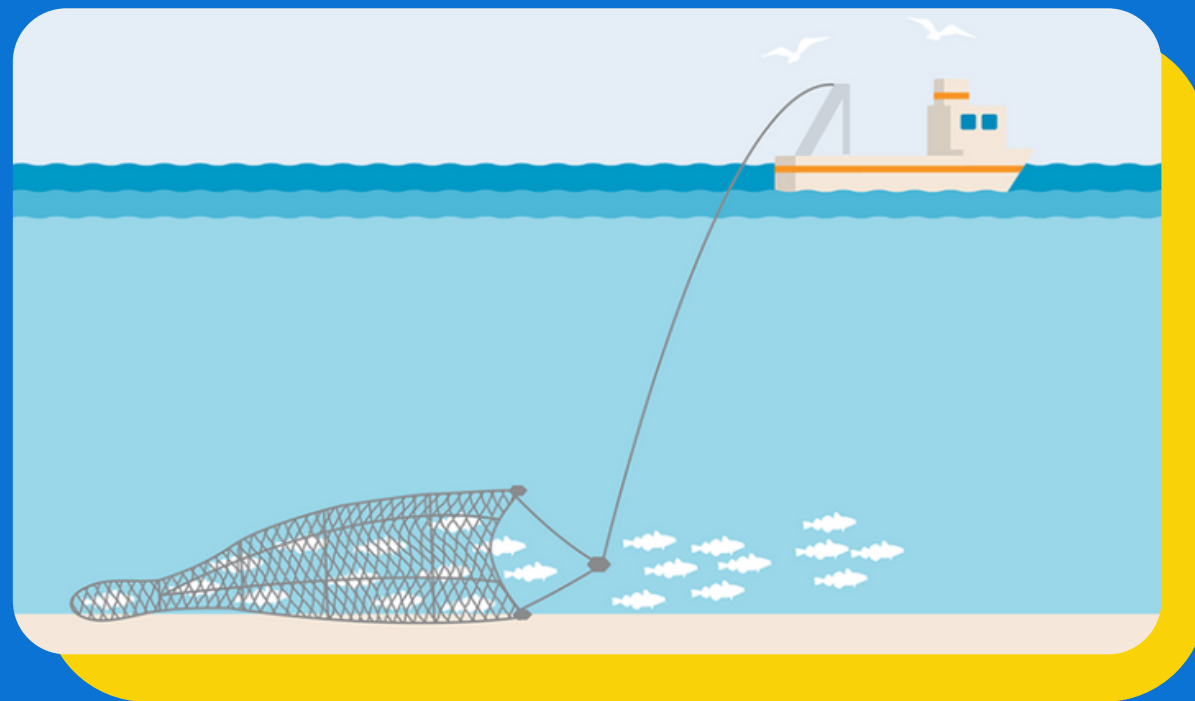
How do we catch our food from the sea?



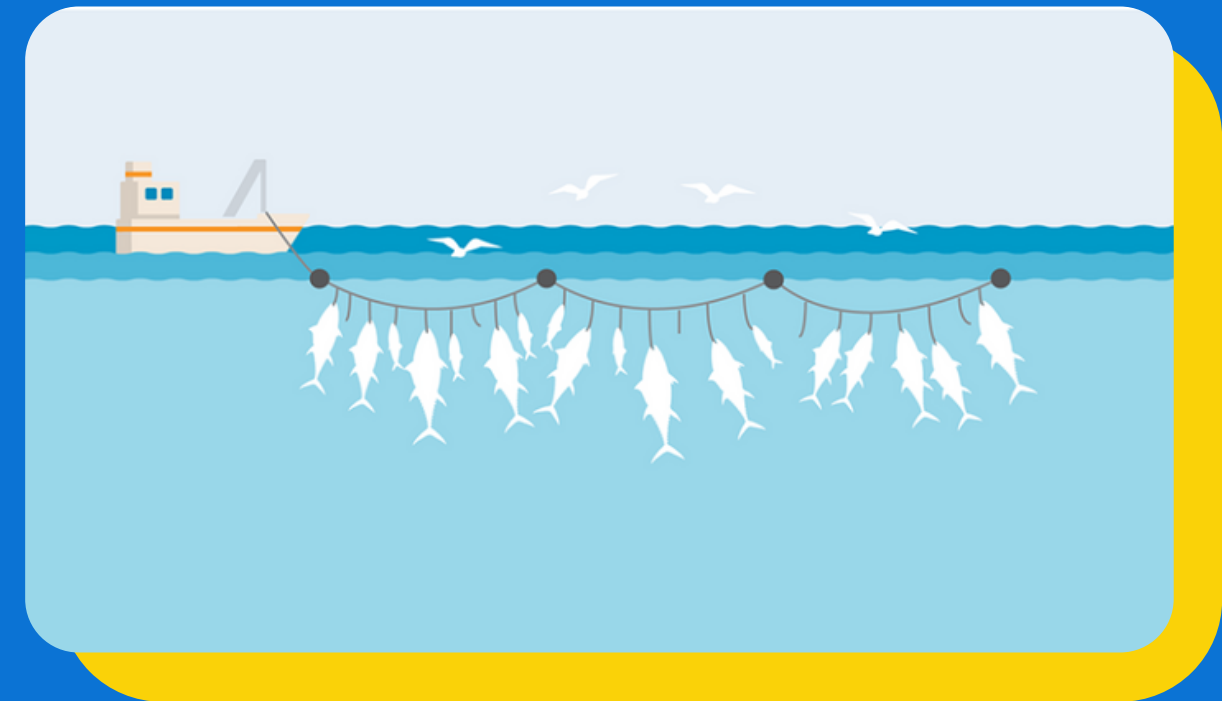
Fishing!

How do we catch our food from the sea?

TRAWL

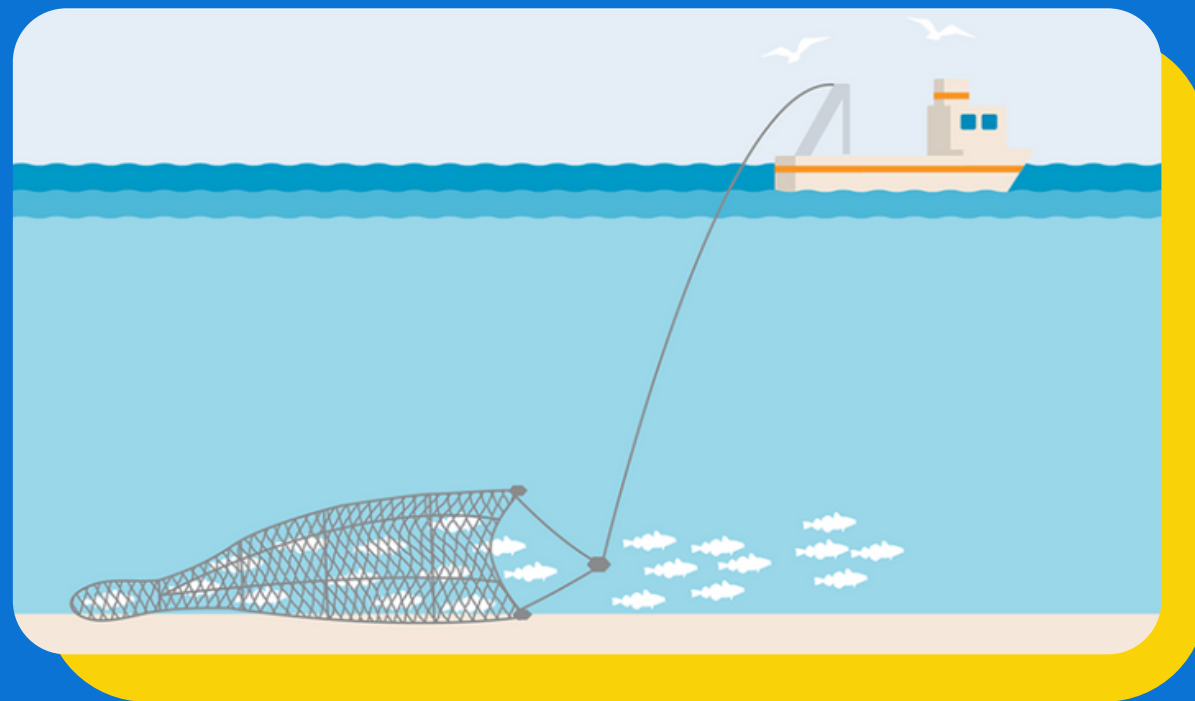


LONGLINE

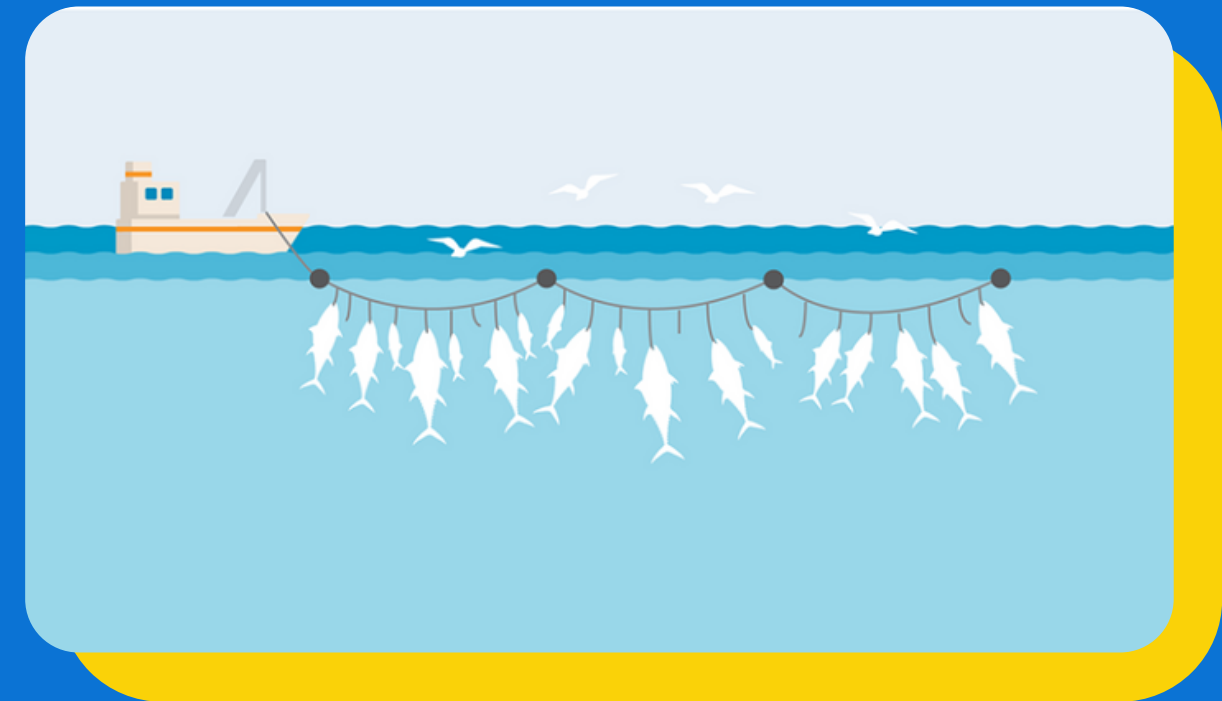


How do we catch our food from the sea?

TRAWL



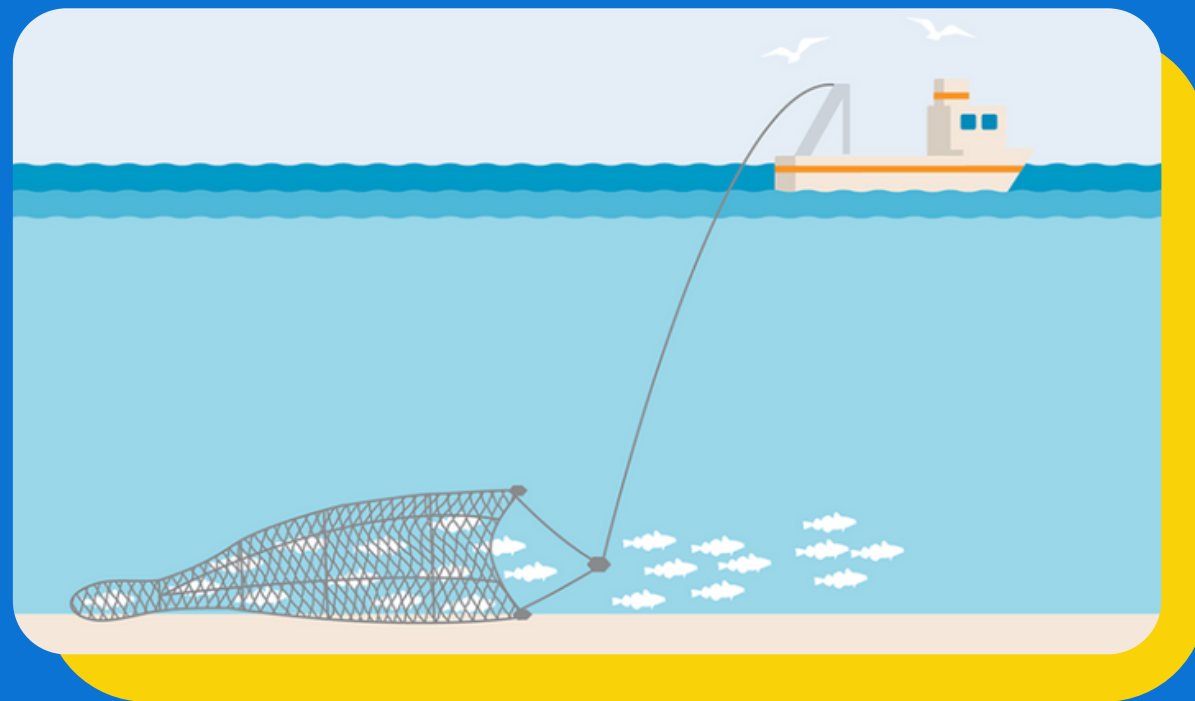
LONGLINE



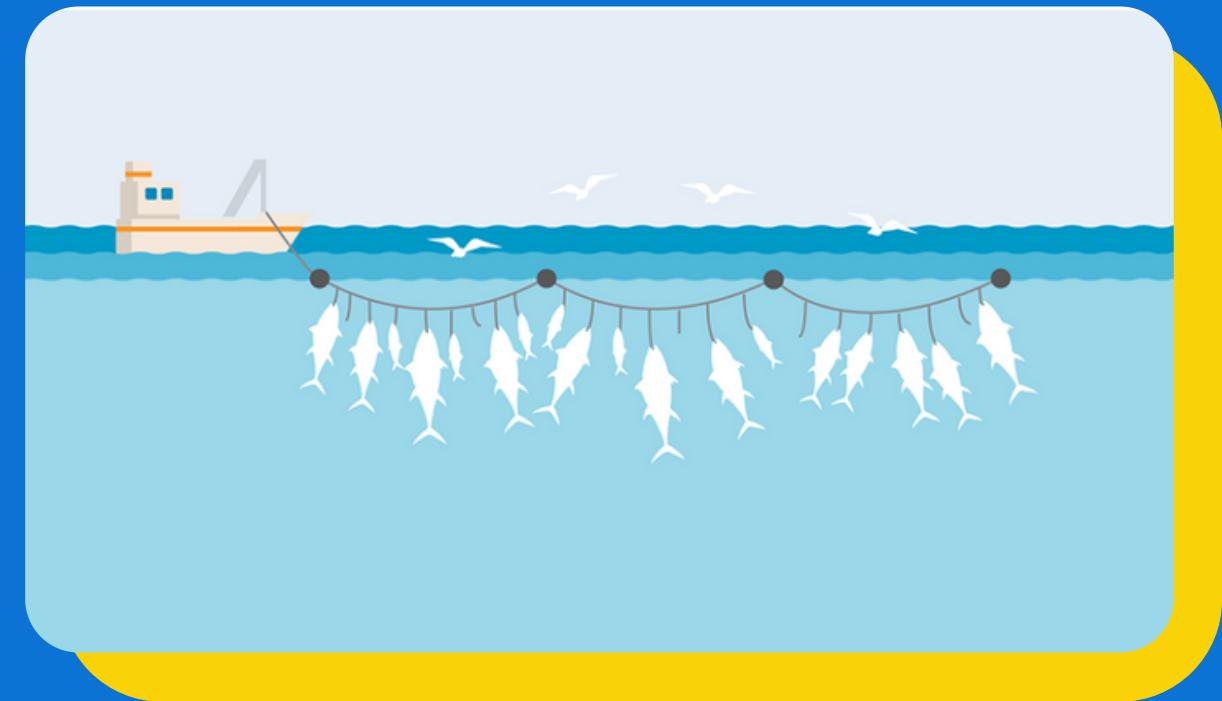
What are some benefits of fishing?

How do we catch our food from the sea?

TRAWL



LONGLINE



What problems might fishing cause for seabirds?

Bycatch

= the incidental capture of non-target species by commercial fishing boats



Bycatch mitigation methods

BIRD CURTAINS



HOKKPOD™



BIRD-SCARING LINES



NIGHT-SETTING



Activity: Seabird bycatch role play

Your group are the **co-captains** of a **fishing boat** in the **Southern Ocean**. To improve seabird populations, you want to reduce seabird **bycatch** - to do this, you need to teach your crew how to do this, and why.

Create a short **role play** to perform to the class, teaching your fishing crew (the rest of the class) about the **changes** you will make, including:

- The **fishing method(s)** that threaten your species' population
- A **demonstration** of how this method works - *use props*
- **Why** this seabird is threatened by this fishing method
- What change(s) (**bycatch mitigation methods**) your fishing crew can make to **help** this seabird species
- A **demonstration** of how this new method works - *use props*
- Argue **why** this change is needed, and **why** it will be effective, based on **evidence** - *use visual aids*

(graphs, posters, drawings, maps...)

