



Wild oysters

Workshop

KS2



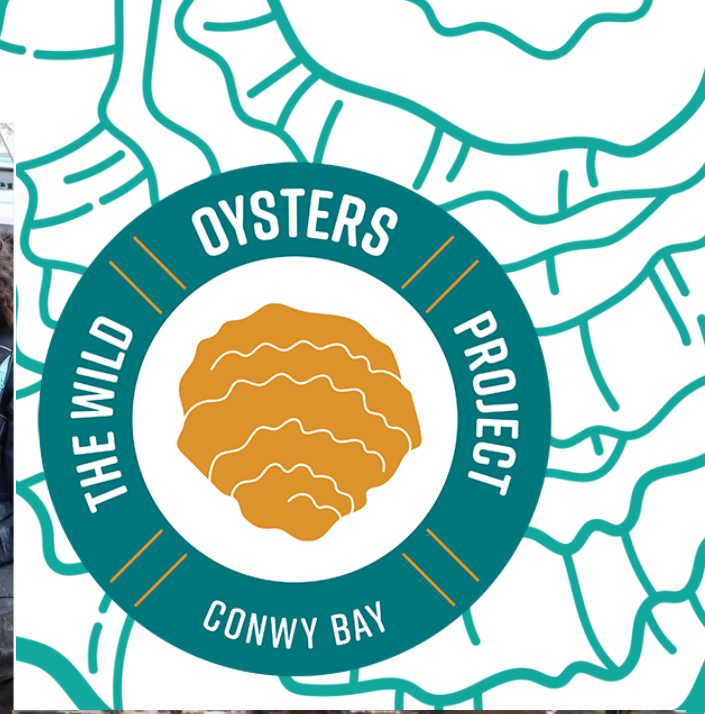
Working together to recover self-sustaining populations of native oysters in UK seas



The Wild Oysters scientists



The Wild Oysters scientists





**CELINE GAMBLE – PROJECT MANAGER
(ZOOLOGICAL SOCIETY OF LONDON)**



**MARIA HAYDEN-HUGHES – LOCAL PROJECT
OFFICER (CONWY BAY)**

Women in science in the Wild Oysters team!



**DIANE LEISHMAN – PROJECT
ASSISTANT (FIRTH OF CLYDE)**



**KAREN STEWART – PROJECT
ASSISTANT (TYNE & WEAR)**

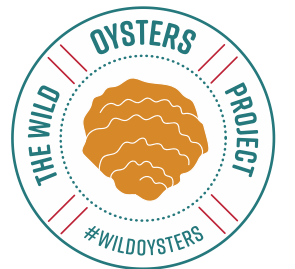


**JENNY MURRAY – SENIOR RESTORATION
PROJECT MANAGER (BLUE)**



Learning objectives


- to learn amazing oyster facts
- to describe an oyster reef
- to understand an oyster food web
- to understand the reasons for decline in oysters
- to understand the benefits of oysters
- to explore ways to help our ocean





**What does
the sea mean
to you?**





**Oceans can absorb 1/3 of our
carbon dioxide emissions...**

**Home to more than 90% of life
on Earth.**

Spotted along our
coastline ...



What is happening to our seas?



(Over)fishing
Plastic
Pollution
Sewage
Habitat destruction/Trawling
Ocean acidification (due to climate change)
Deep sea mining

NEWS

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Dead humpback whale washed up on Blyth beach

© 19 March 2021



PA MEDIA
The humpback whale washed up dead on the beach at Blyth

A humpback whale nicknamed Humpy by wildlife watchers has washed up dead on a beach.

The 36ft-long (11m) juvenile appeared at Blyth, Northumberland, overnight and efforts are under way to remove it.

ng
h

Fishermen fear for livelihoods as thousands of dead shellfish wash up from North Sea

A MYSTERY over miles of dead shellfish washing up on the shore has put fishermen in fear of their livelihoods.



© PA

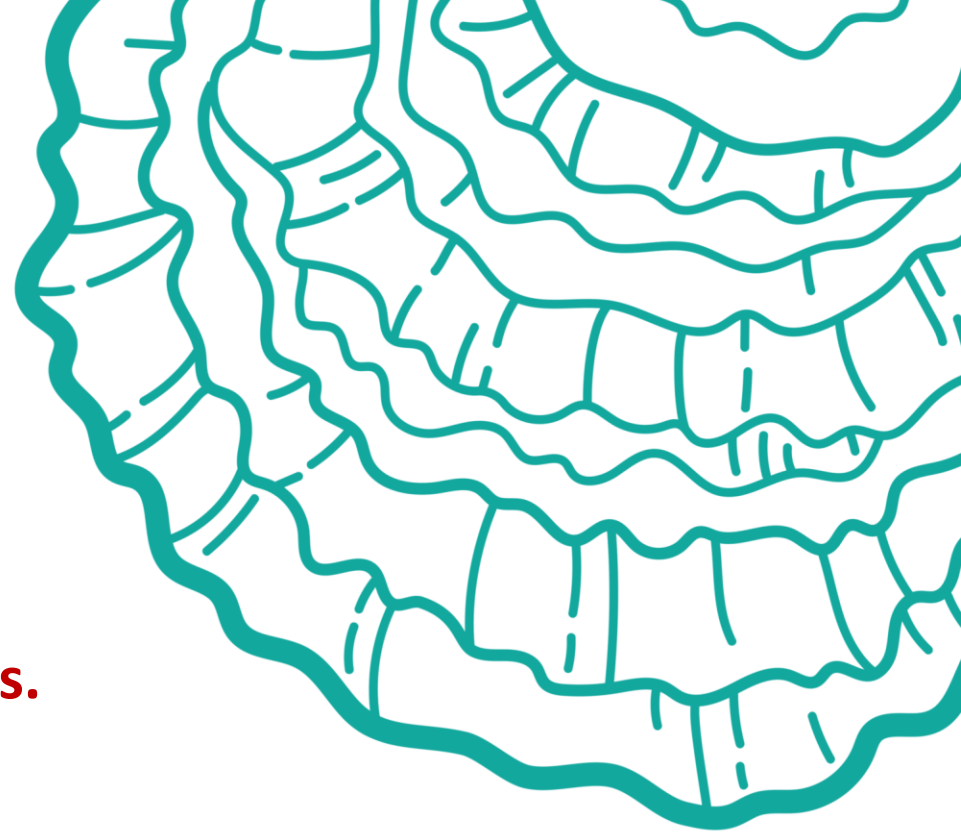
Oyster facts

Oysters are **molluscs**, like snails.

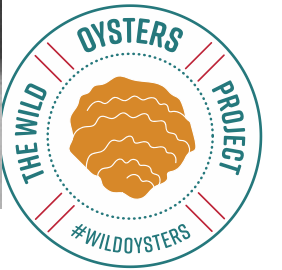
Bivalves have **two shells**.

Live at **coast** – not deep water

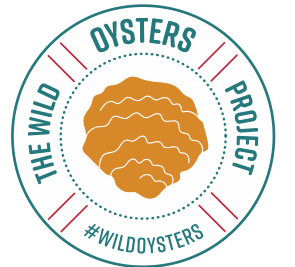
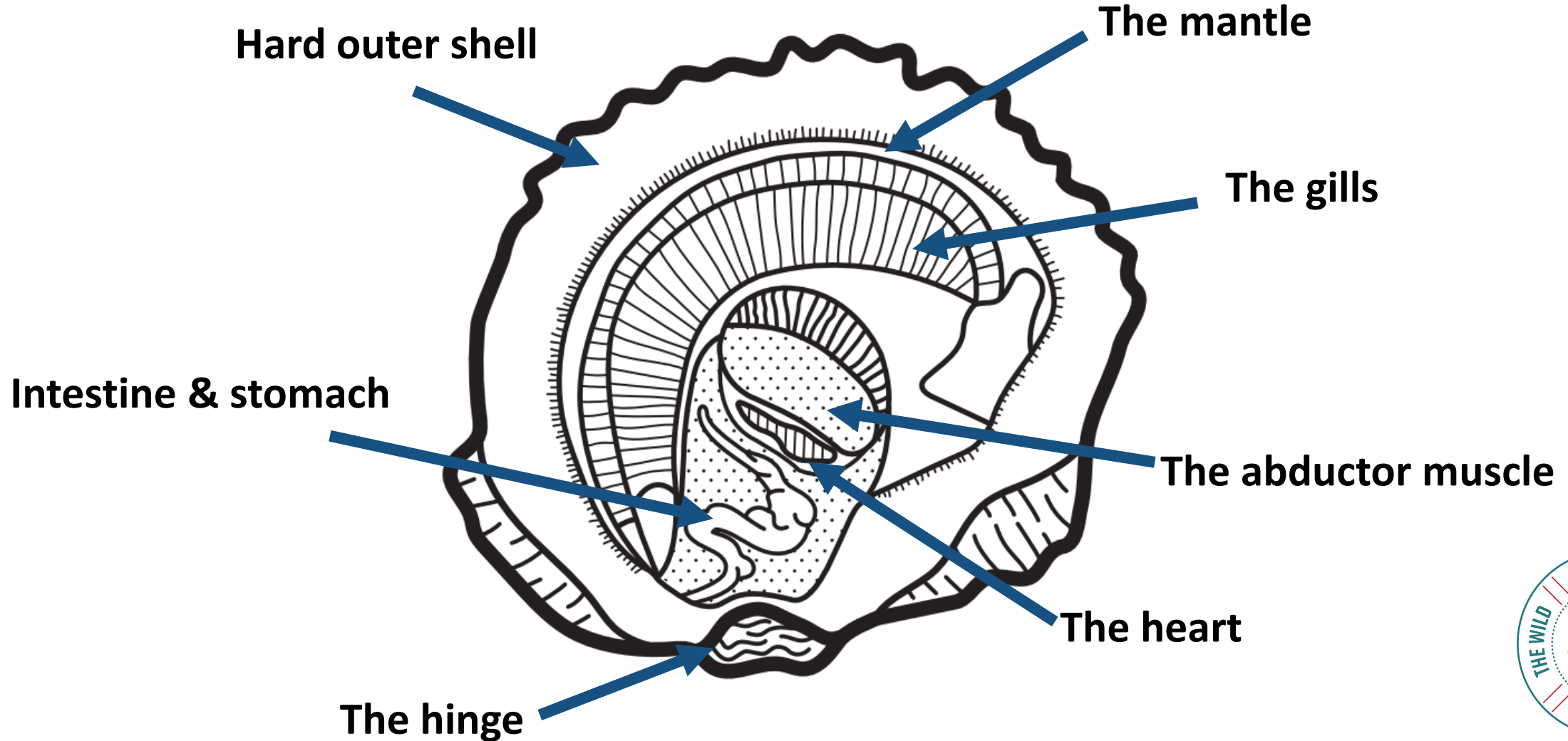
They live in **large groups that FORM REEFS**, a bit like coral reefs!



What does an oyster look like?



What does an oyster look like?



Globally



China

UK

India

Mozambique

Brazil

France



USA
CANADA

USA

MEXICO

BRAZIL

PERU
BOLIVIA
CHILE
ARGENTINA

ARTIC OCEAN

RUSSIA

KAZAKHSTAN
MONGOLIA

CHINA

INDIAN OCEAN

INDIA

AUSTRALIA

ANTARCTICA

ATLANTIC OCEAN

PACIFIC OCEAN

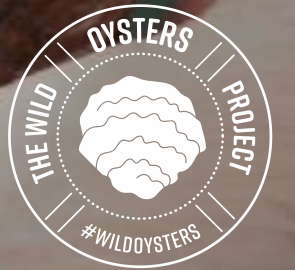
TROPIC OF CANCER

EQUATOR

TROPIC OF CAPRICORN

One species of oyster
native to the UK

European Native Oyster
Ostrea edulis





Native Oysters in the UK



Oysters have now practically disappeared due to - **overharvesting, pollution and habitat loss.**

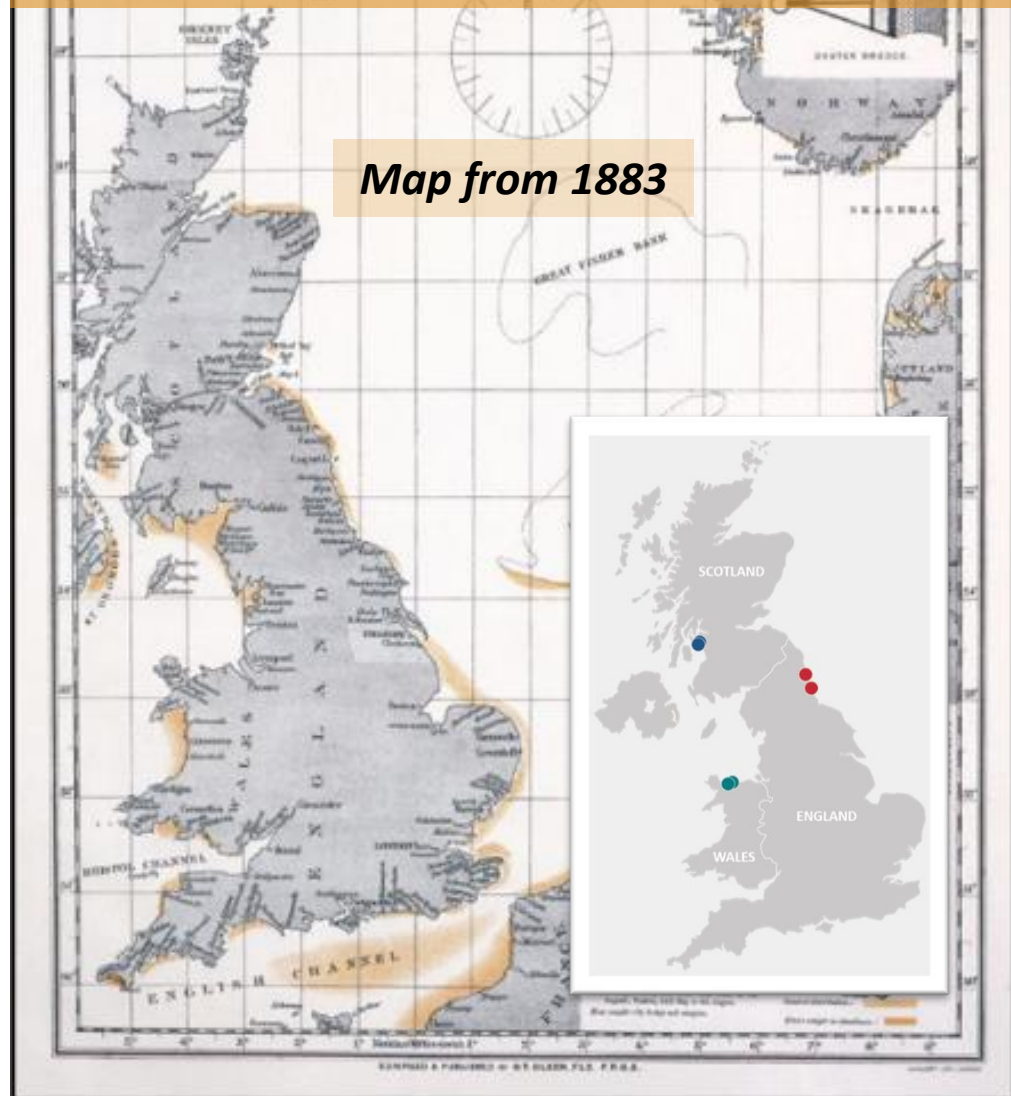


Oyster day in 1835- The arrival of the first oysters of the year at Billingsgate fish market. Oysters were very popular food as they were so cheap – you could buy around 4 for 1 penny.



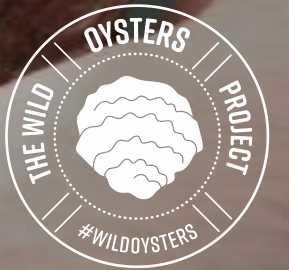
AUGUST.

Have declined by **95%** in the last 200 years



Map from 1883

Amazing Oysters!



All oysters are born male, then **change between male and female** throughout their lives

They create **habitats** for other living things



Can live for up to **15 years!**

One oyster can clean **200 litres** of water per day!

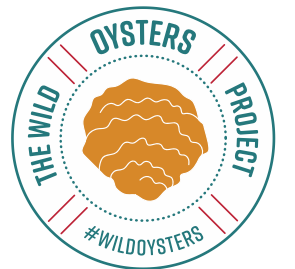
Absorb carbon from the air into shell.



Each adult female can produce around **1 million babies** per year!



One oyster can clean
200 litres of water
per day!



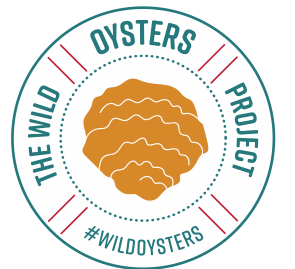


Native
oysters ↓

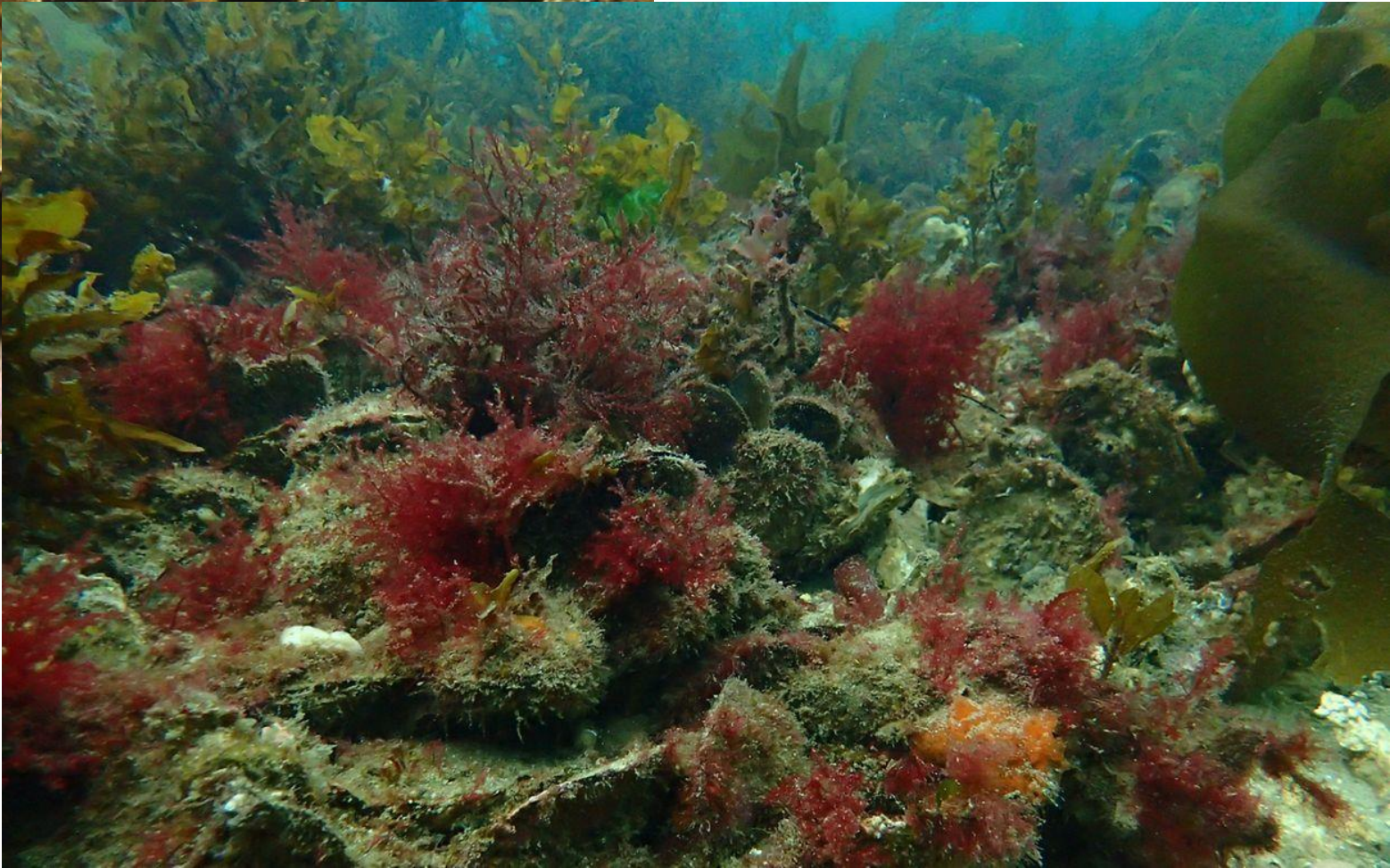
Oyster filtering



They create
habitats for other
living things.



Native oysters form reefs...



...our UK equivalent to coral reefs!



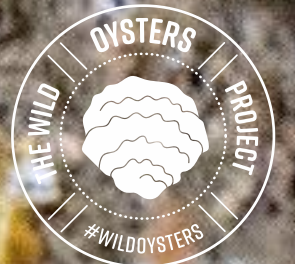
Ecosystem engineers

Habitat

a place where an organism lives

Ecosystem

a habitat and all the living things in it





Biodiversity



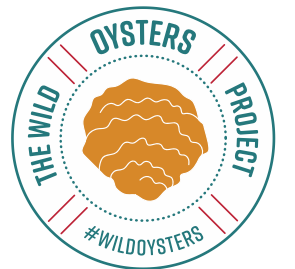
97

species!

Biodiversity
variety of life

© Luke Helmer & Eric Harris-Scott

**Oysters can help
humans too!**



Oysters are secret

SUPERHEROES

Increasing the number of fish



Creating a home for marine animals



Cleaning up the sea



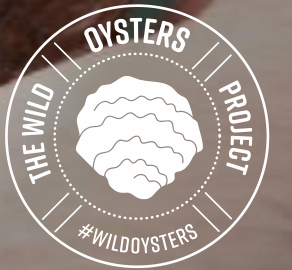
Providing jobs and food



The jobs they do for humans are called ecosystem services



Amazing Oyster Bingo



Oyster bingo!

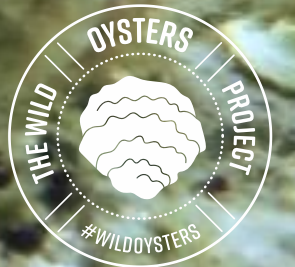
1. Read the fact sheet and fill in the squares below with six oyster facts.

<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

2. Listen to the questions and put a tick in the box next to each correct answer. Don't forget to shout 'bingo!' when you have ticked off all six facts.



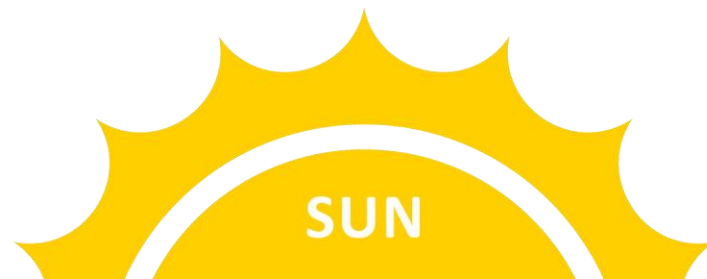
Oyster food web



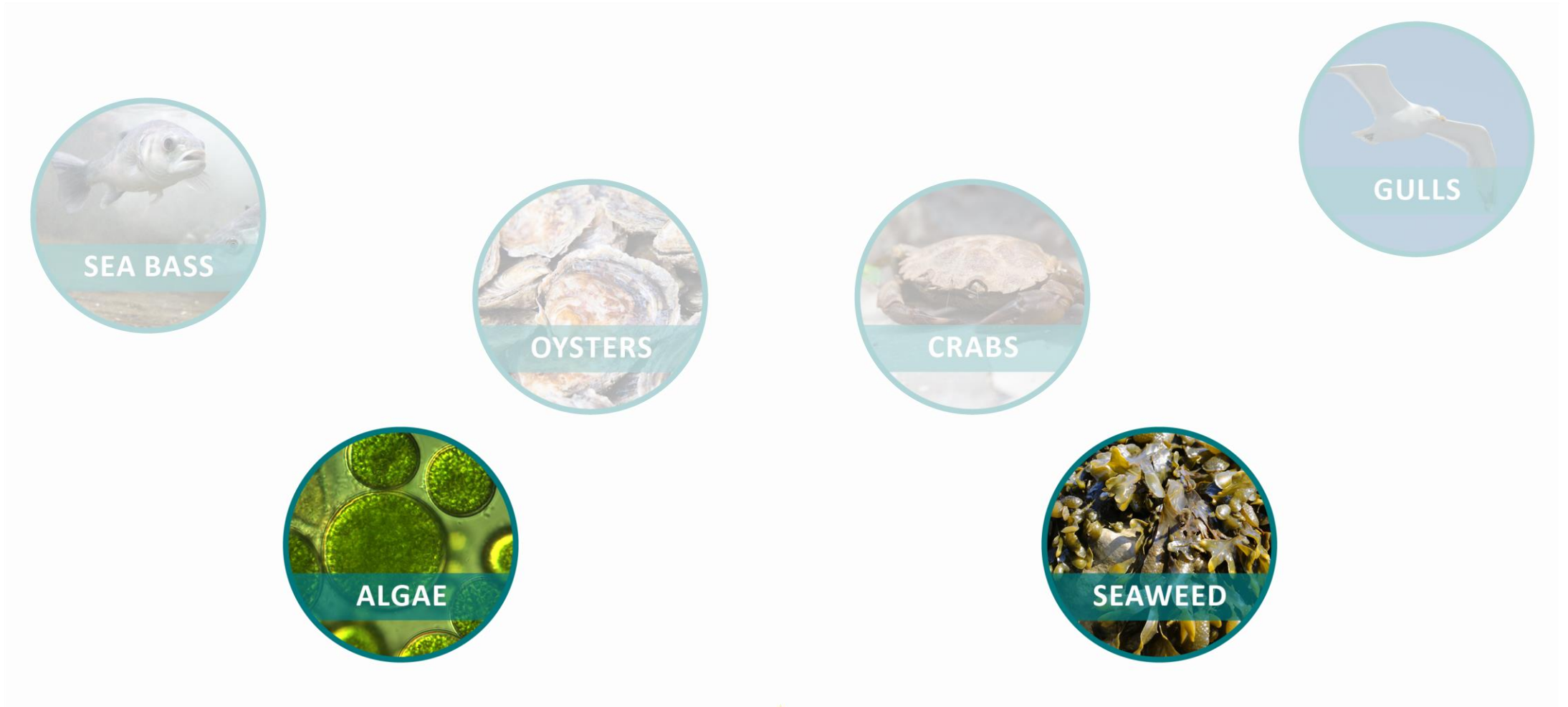
Oyster food web



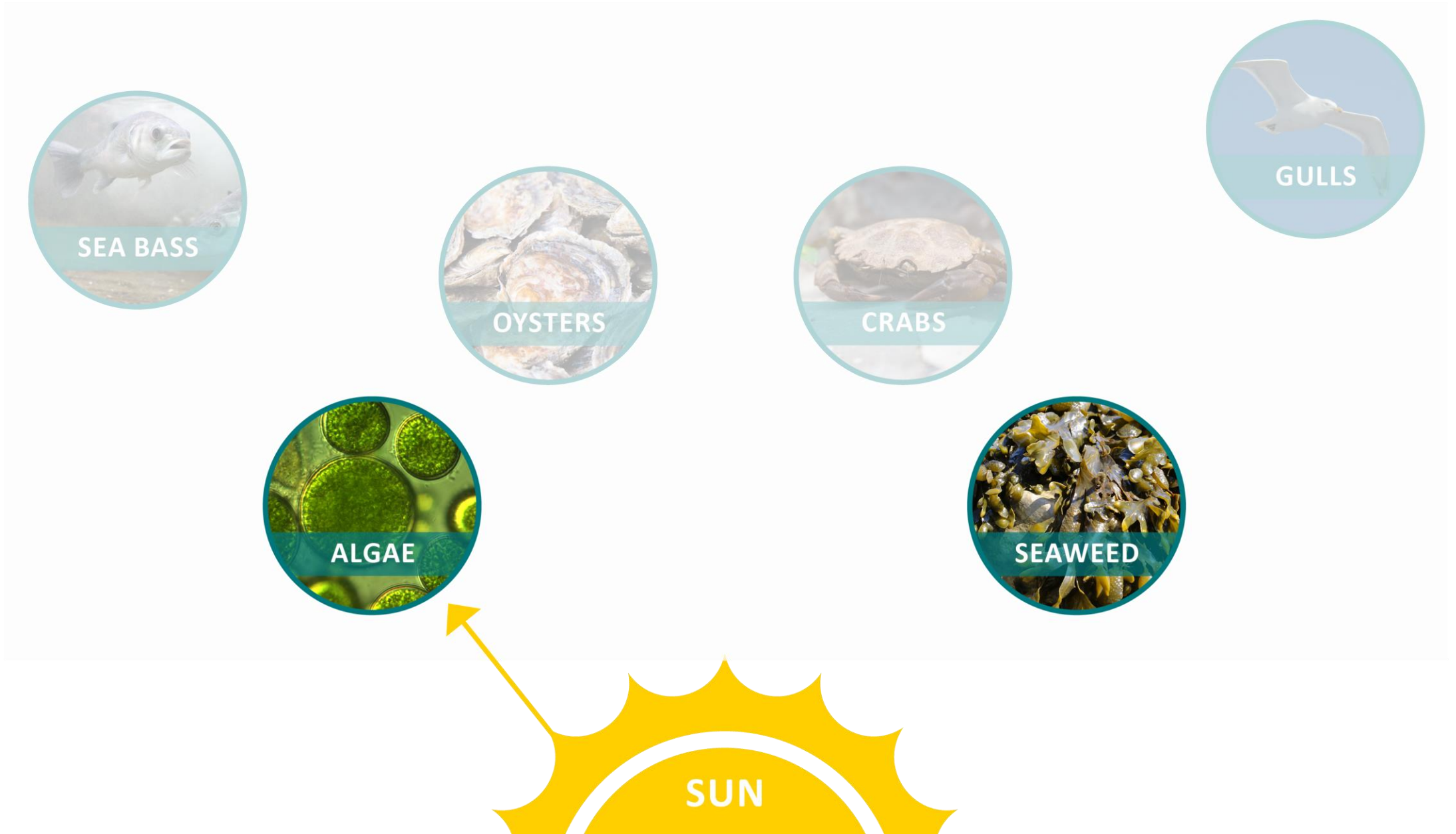
Oyster food web



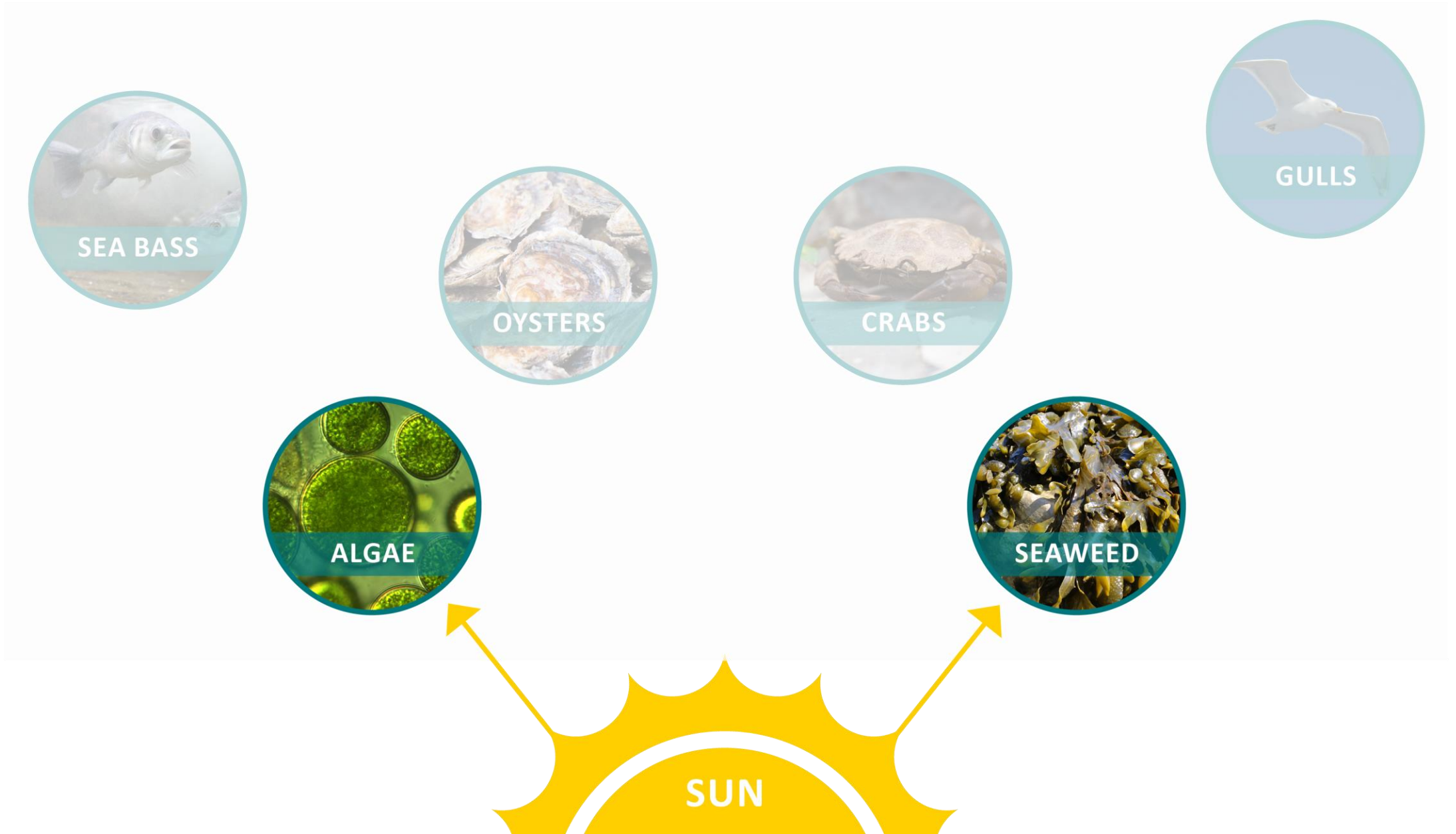
Oyster food web



Oyster food web



Oyster food web



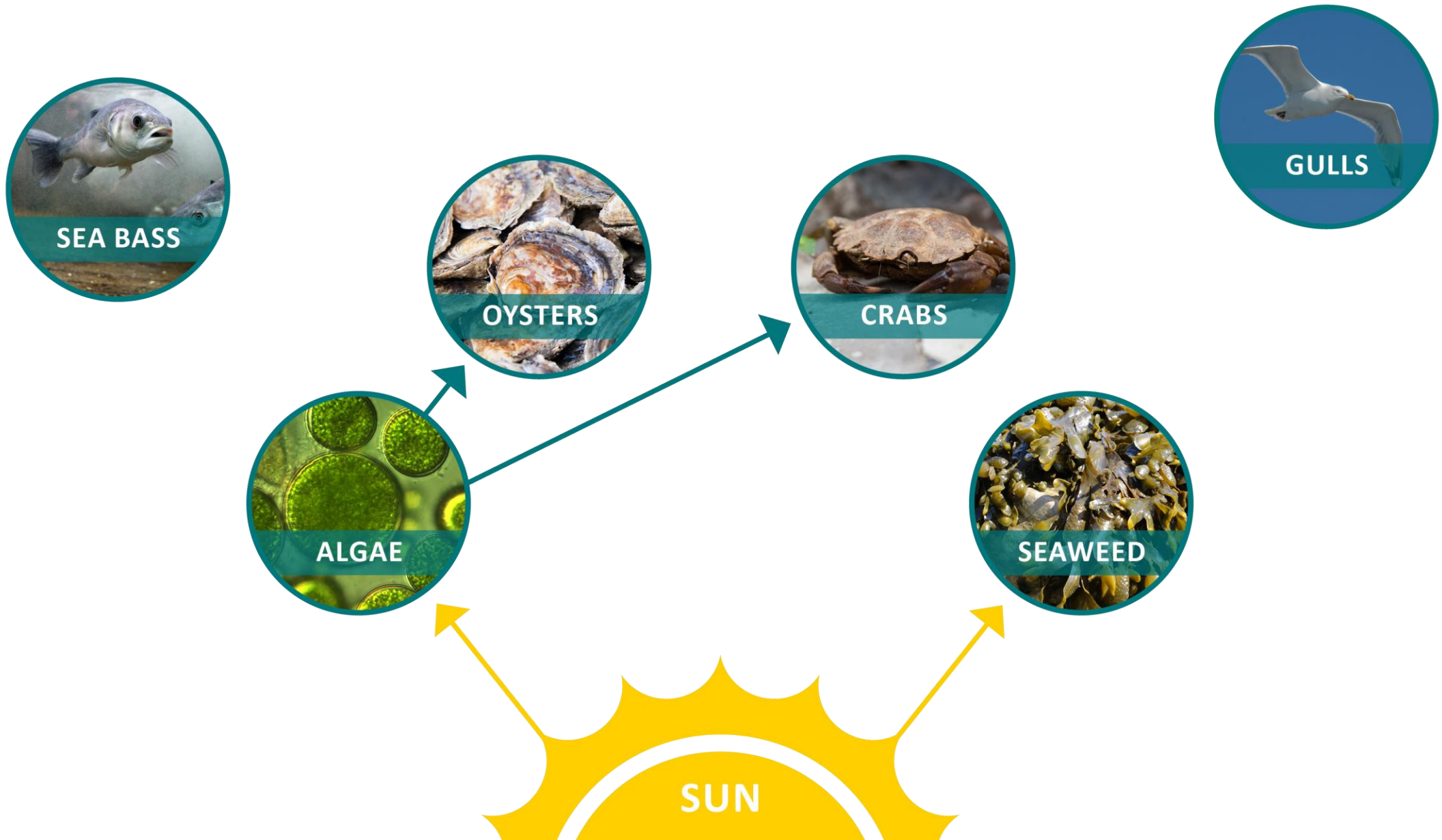
Oyster food web



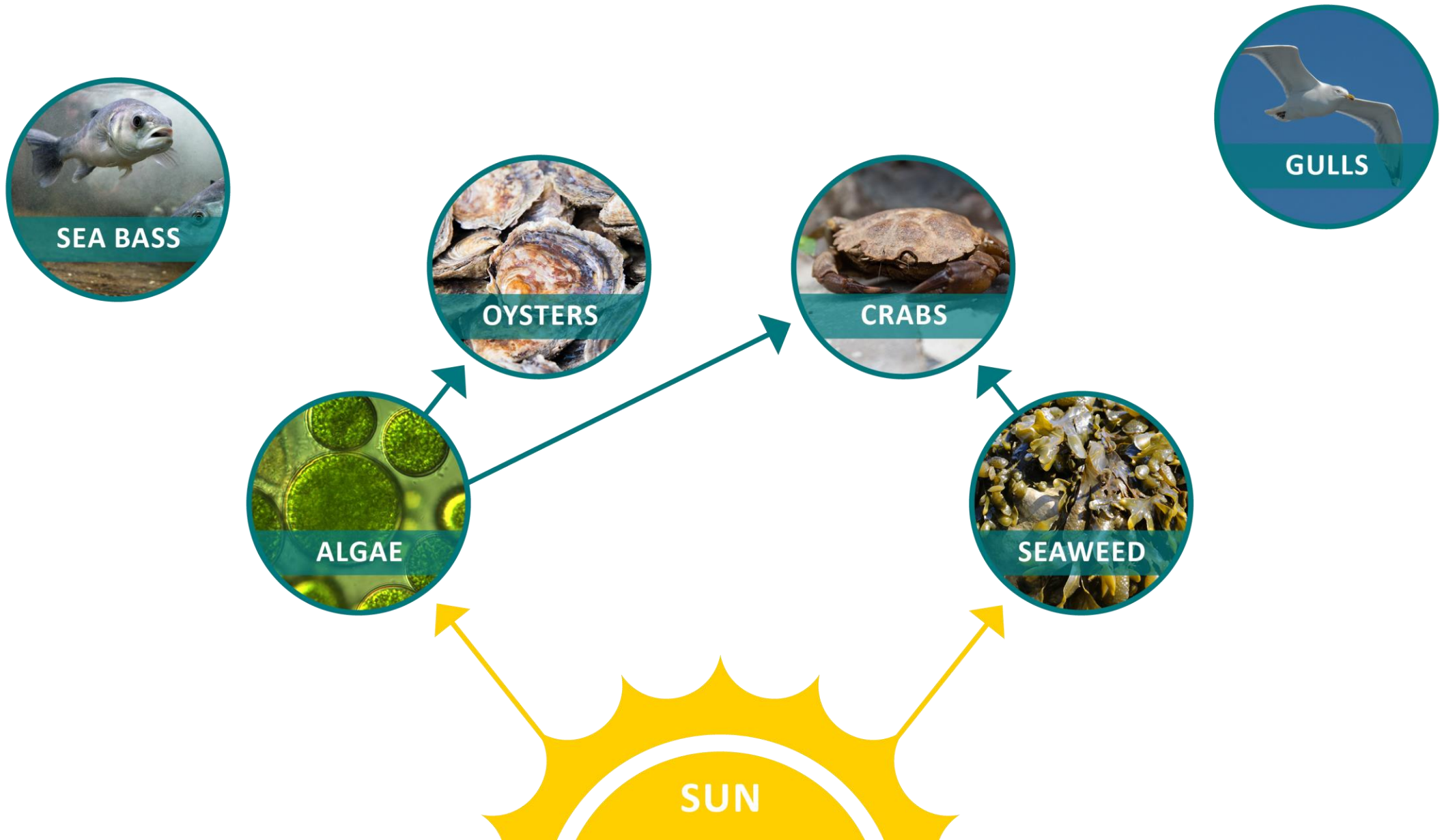
Oyster food web



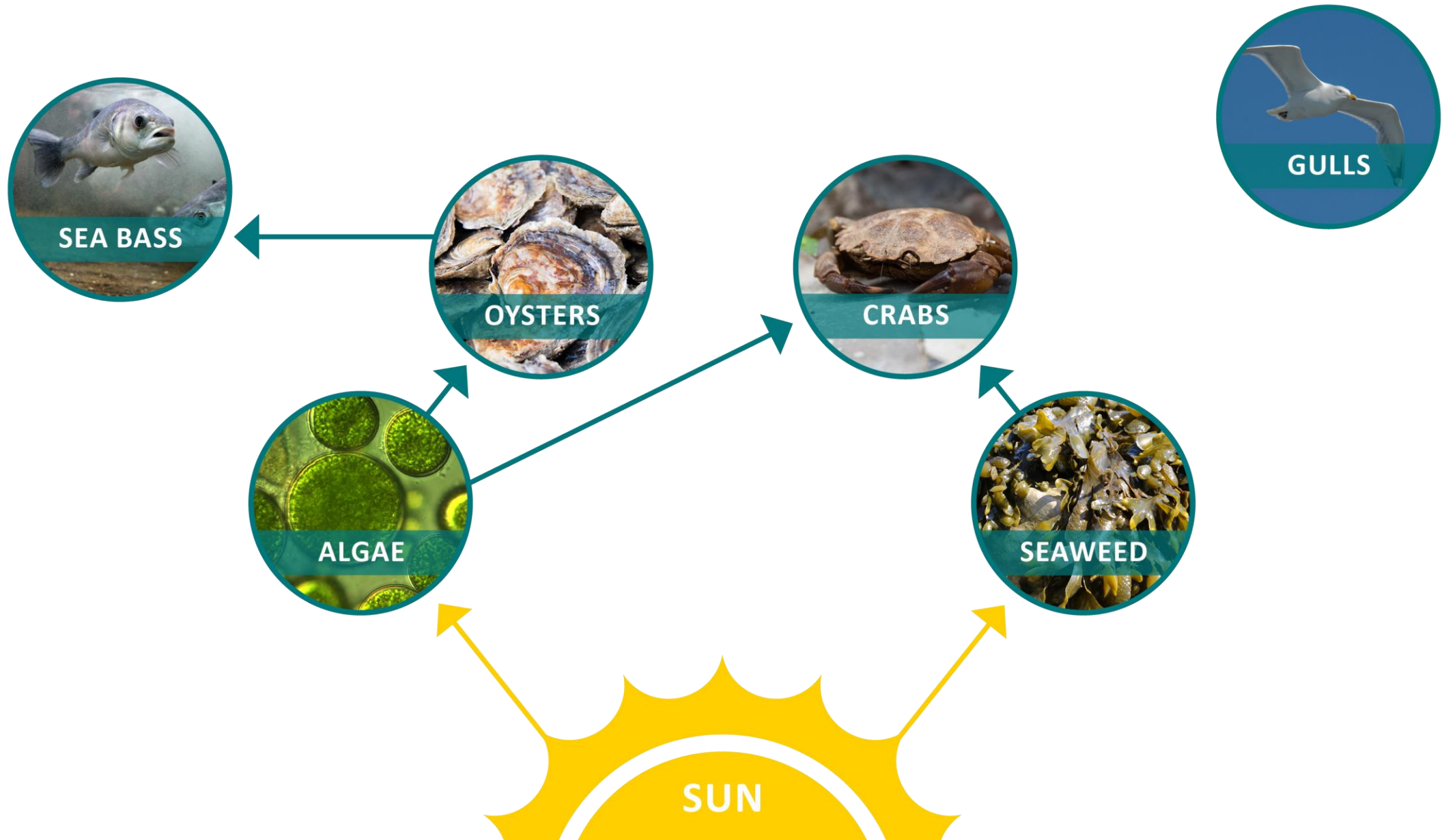
Oyster food web



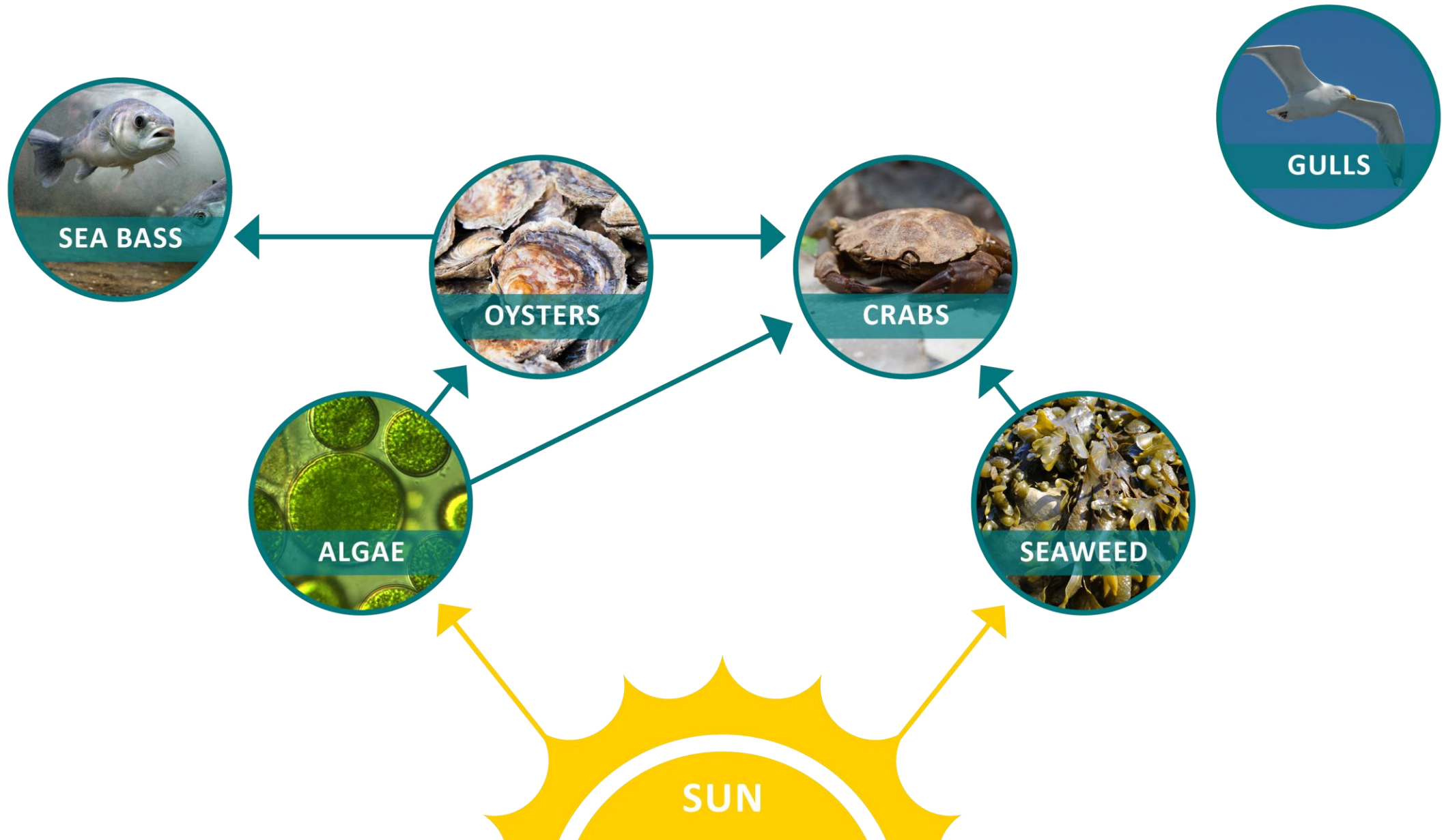
Oyster food web



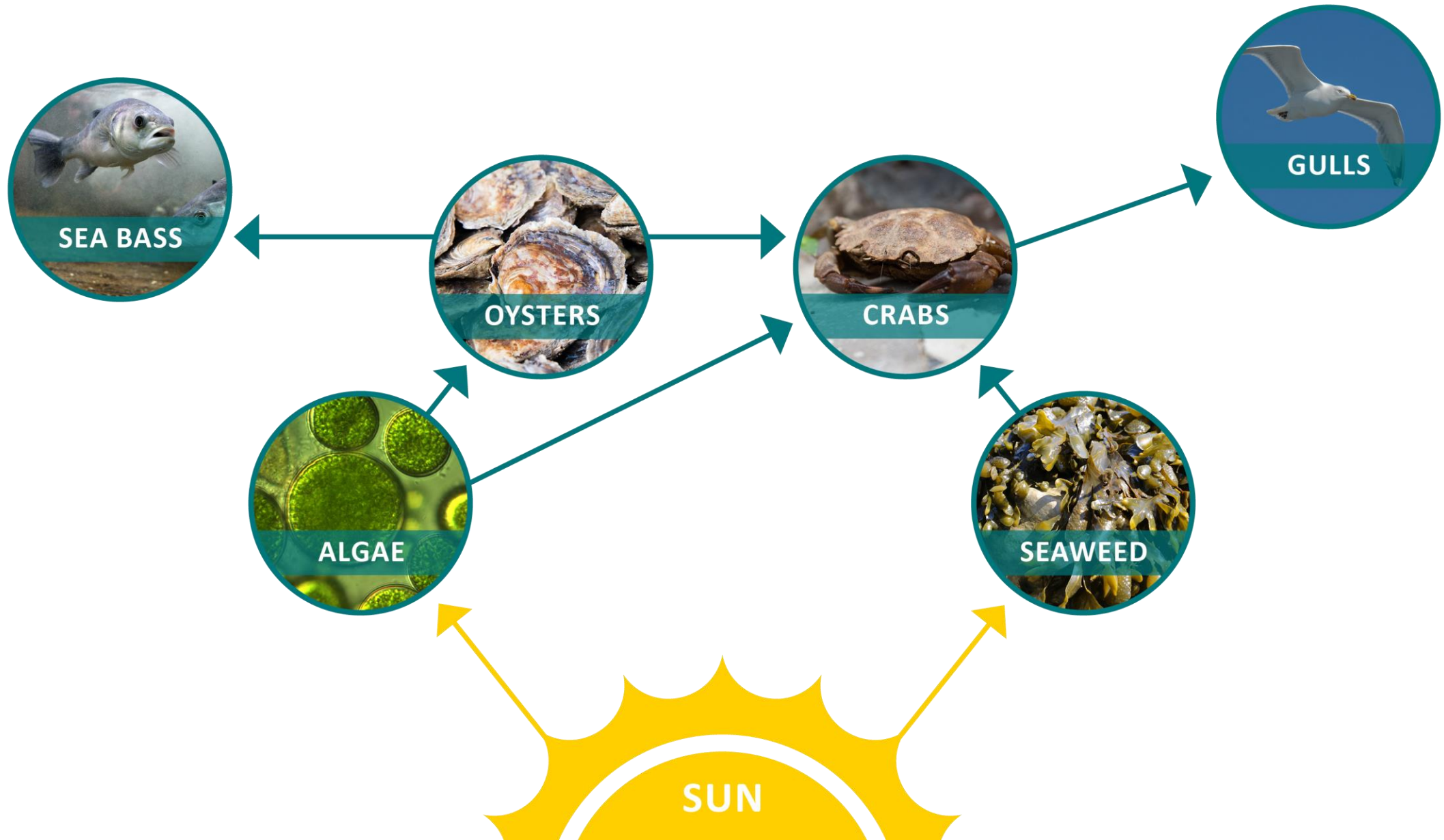
Oyster food web



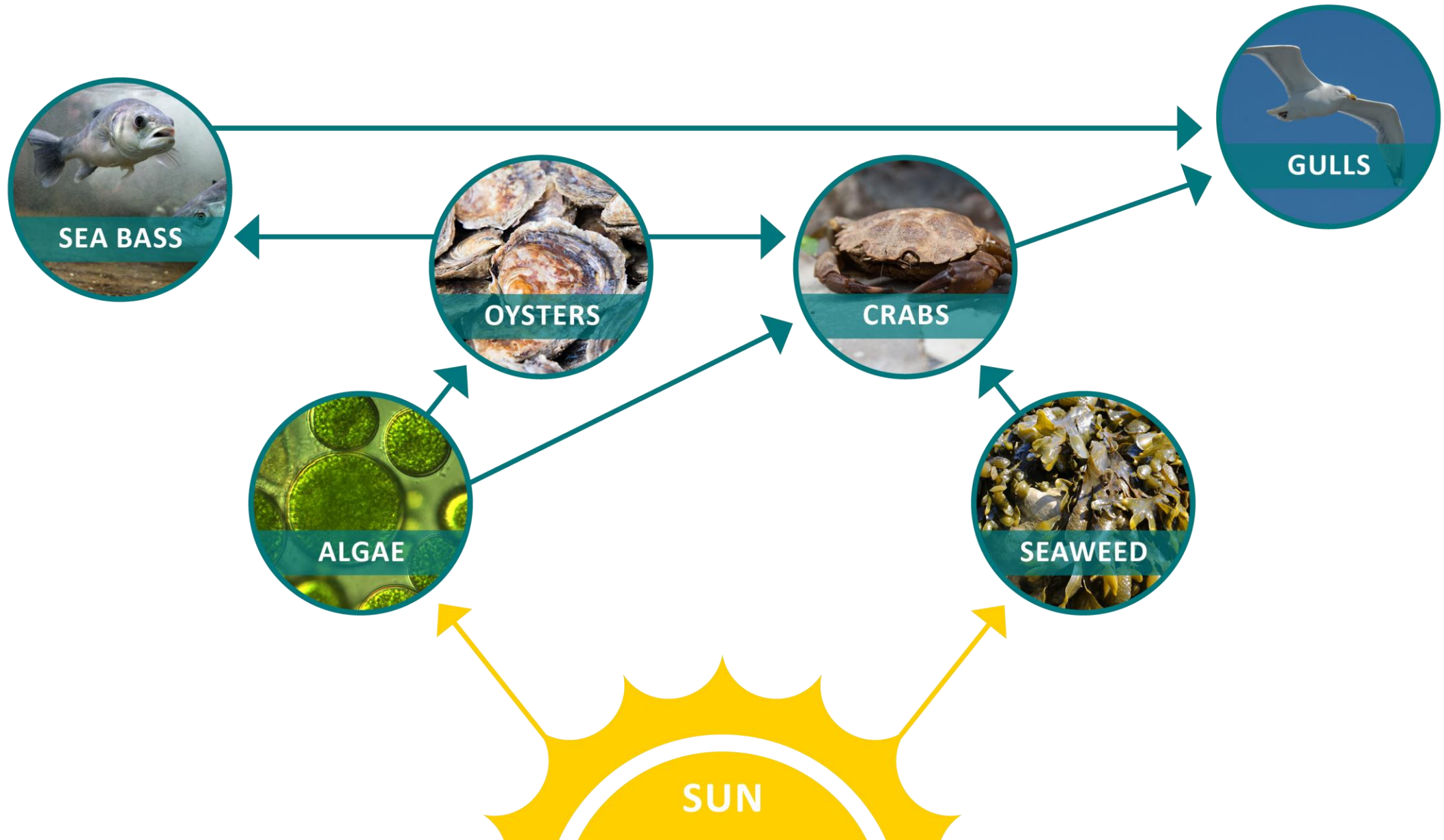
Oyster food web



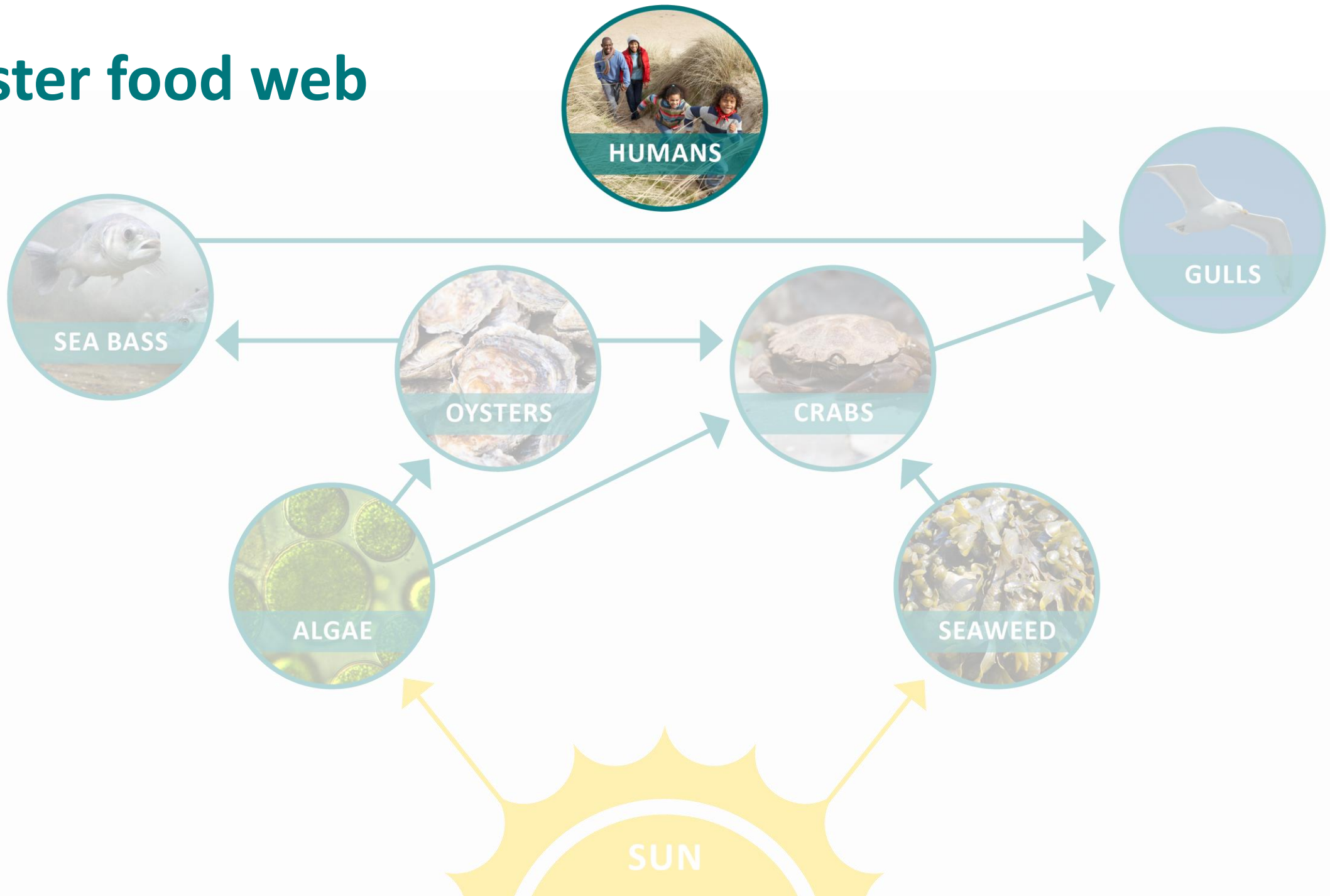
Oyster food web



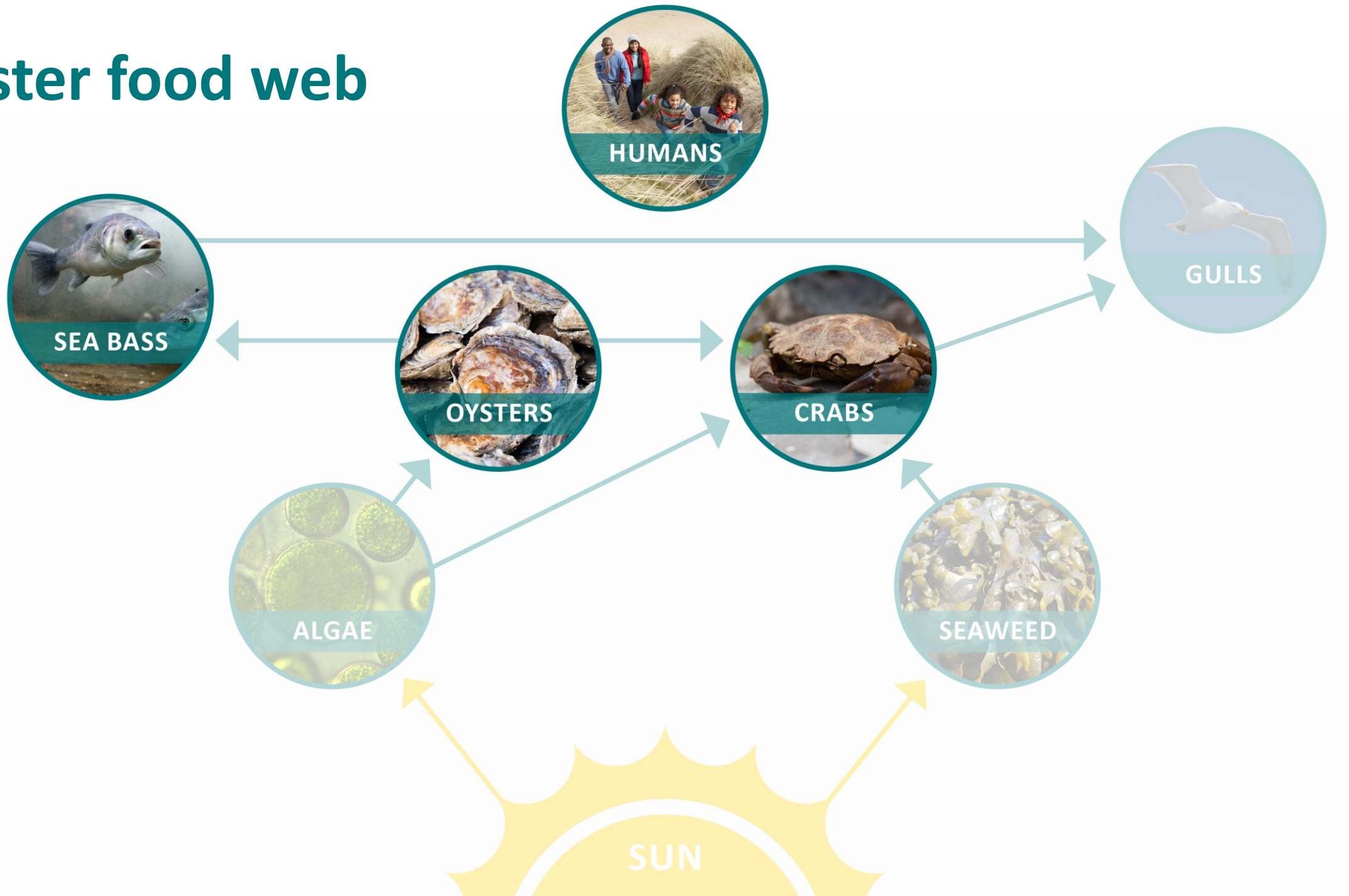
Oyster food web



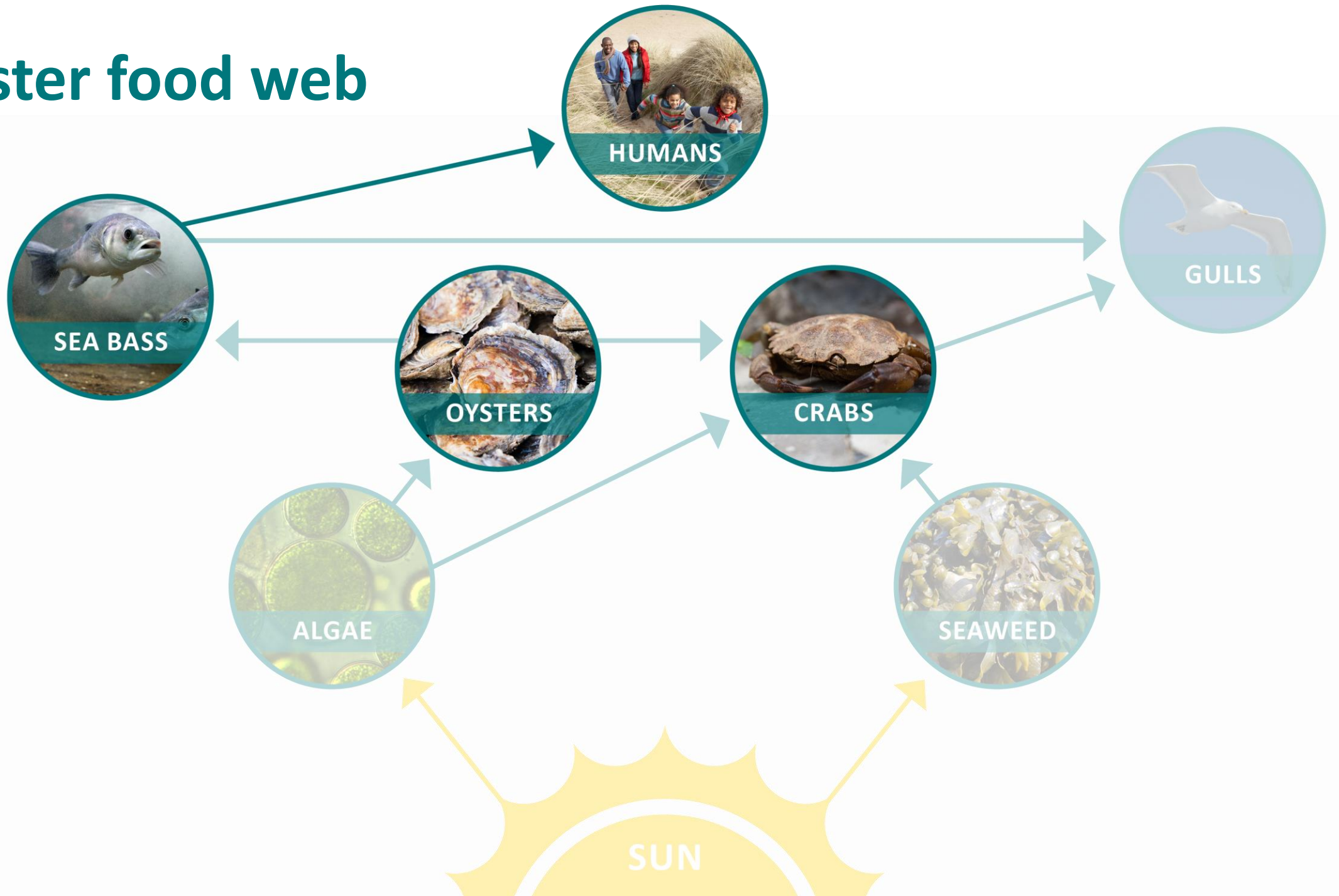
Oyster food web



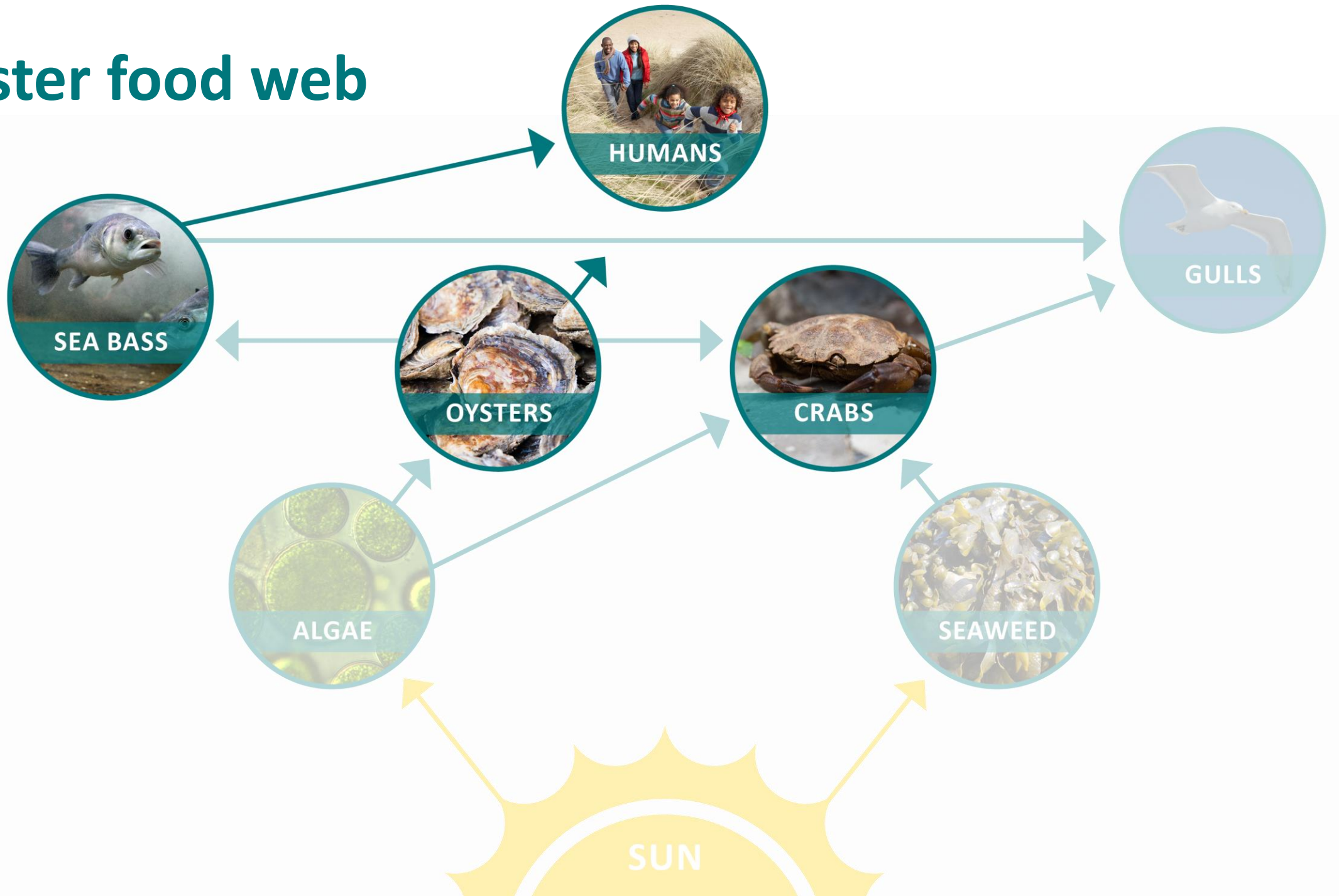
Oyster food web



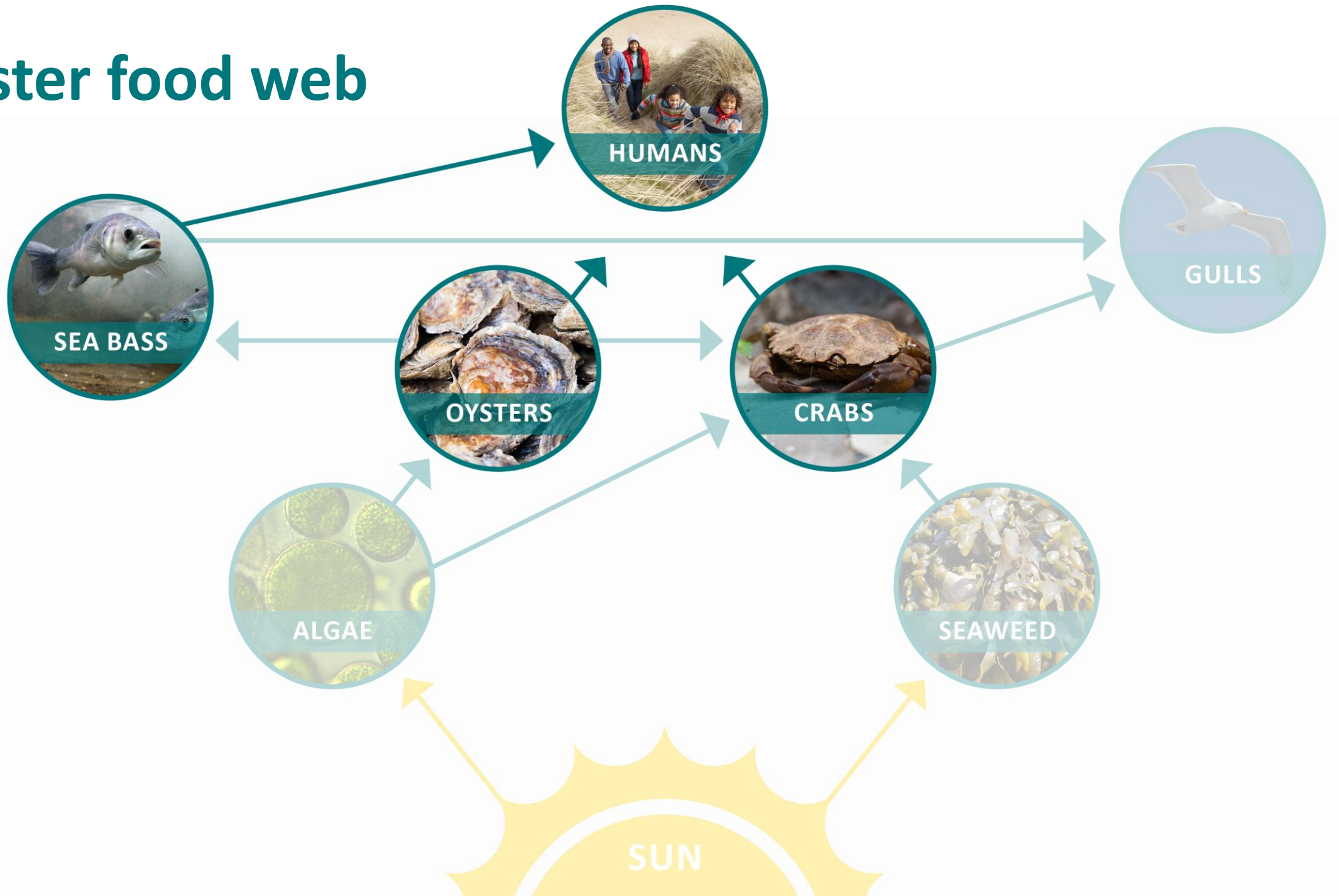
Oyster food web



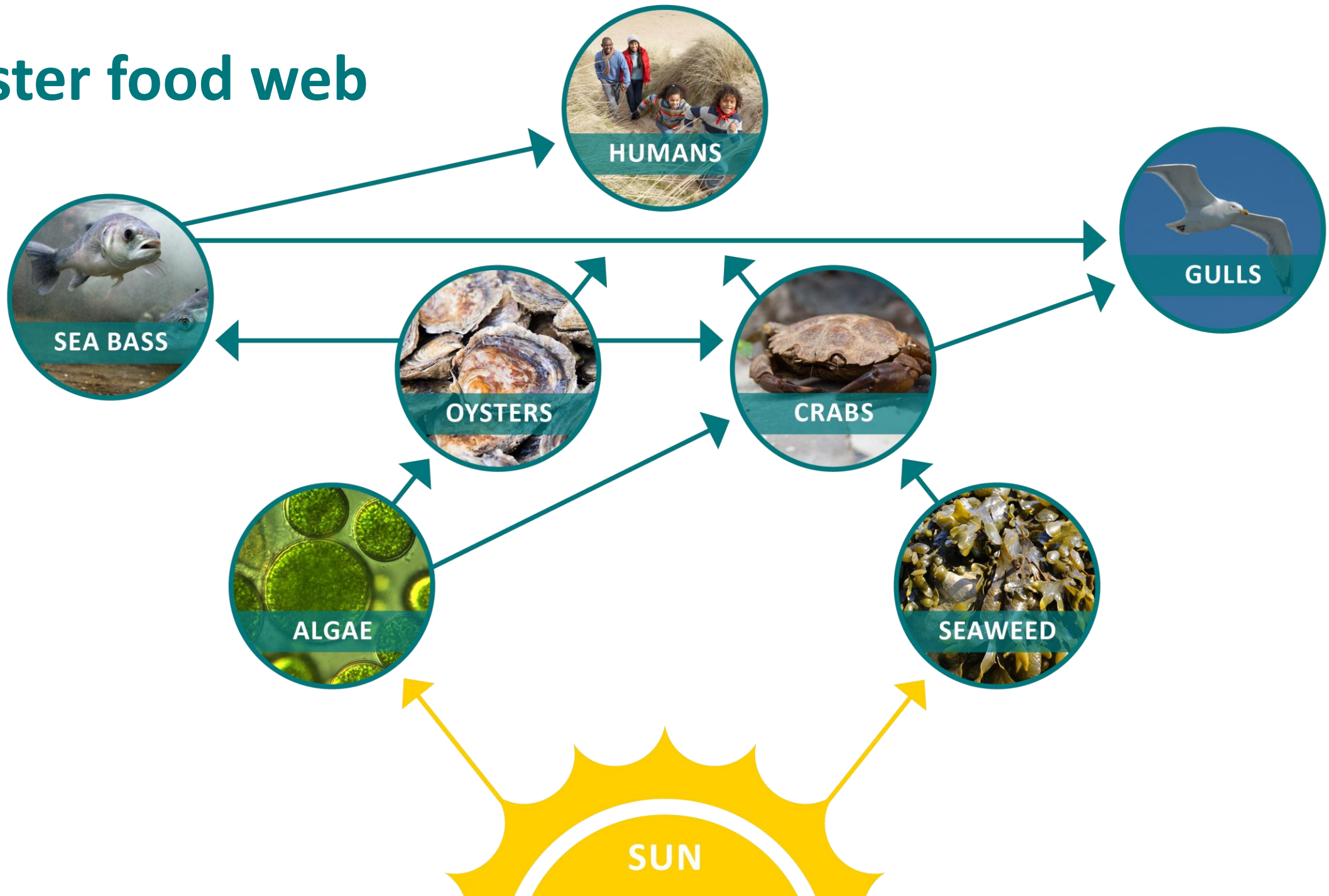
Oyster food web



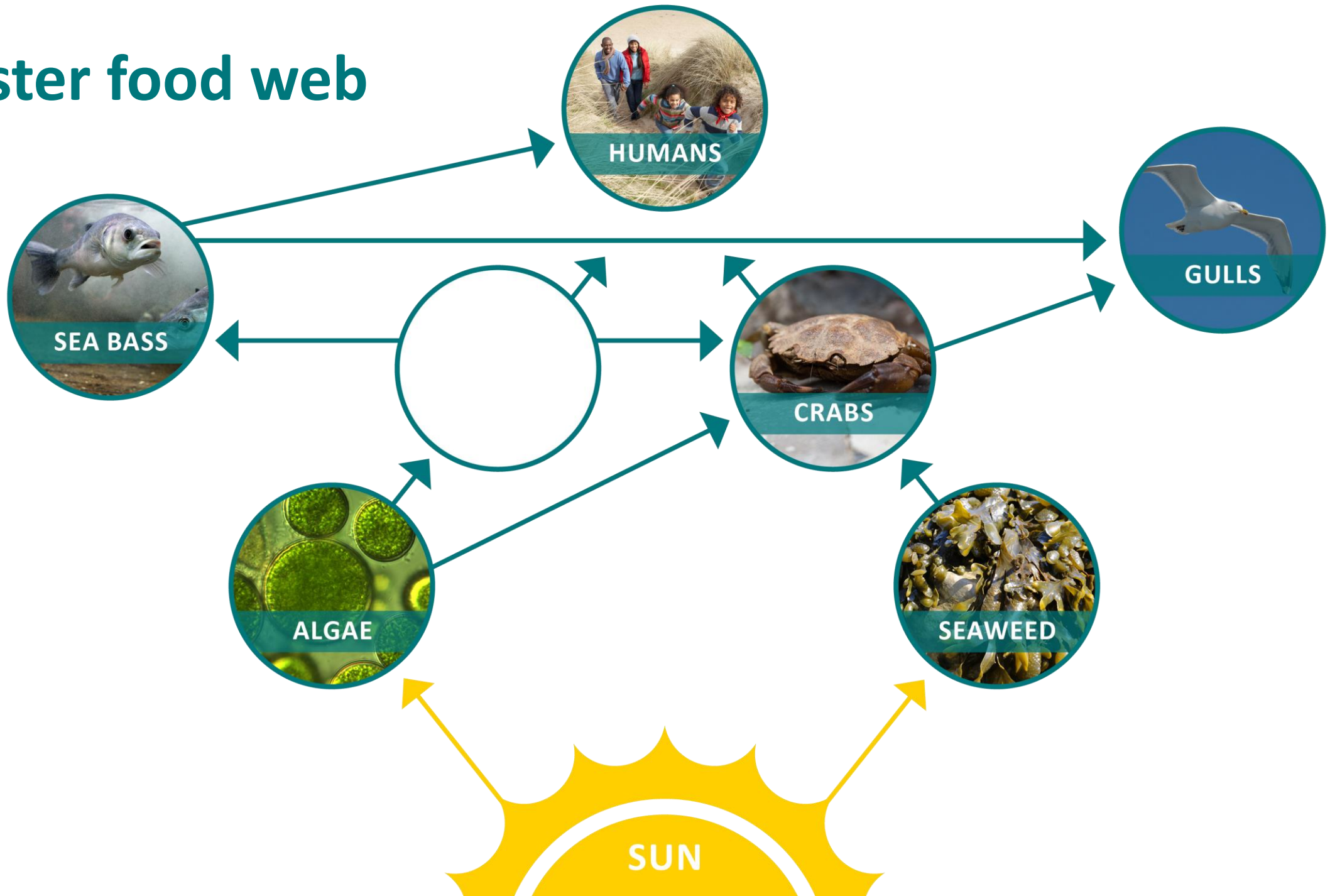
Oyster food web



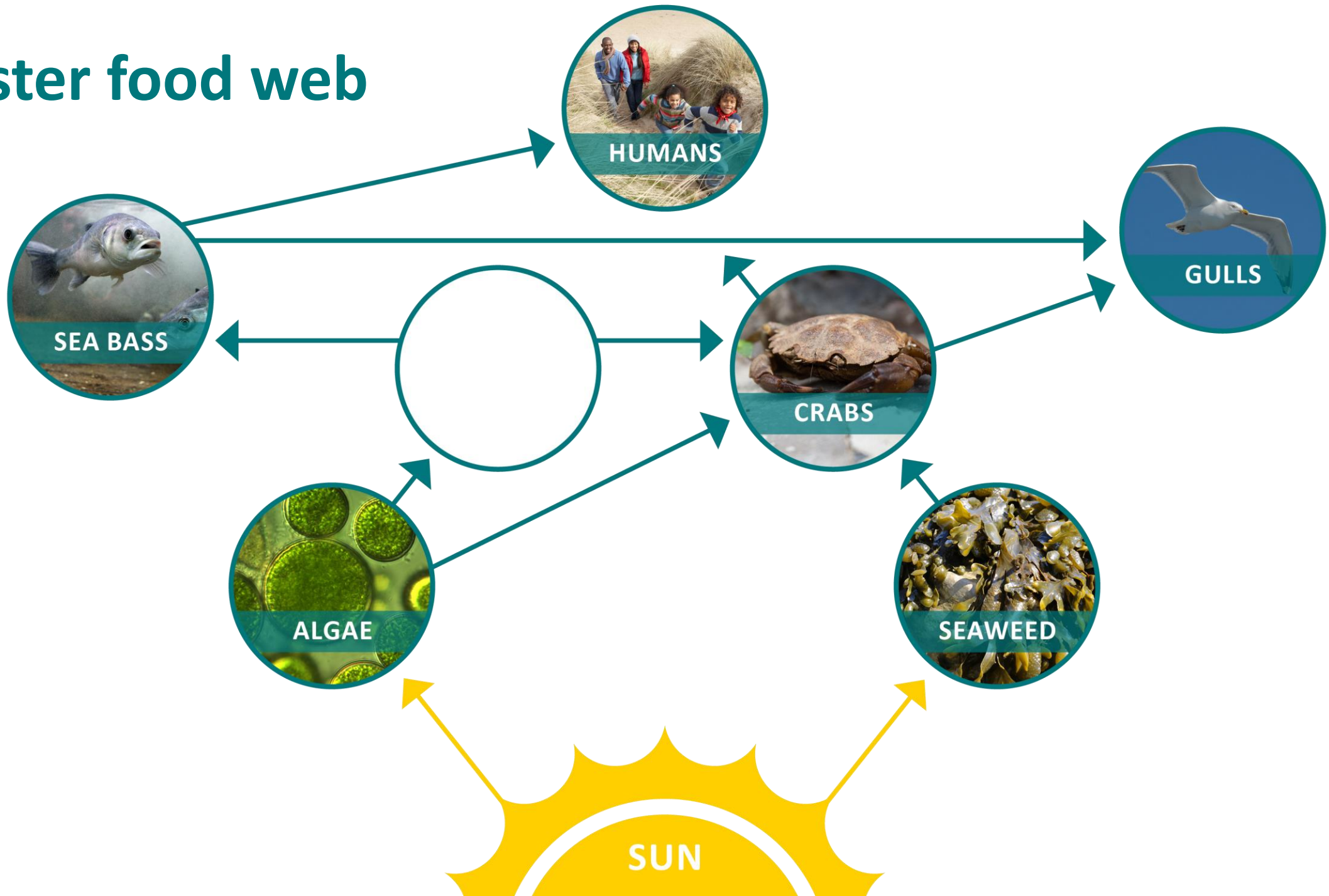
Oyster food web



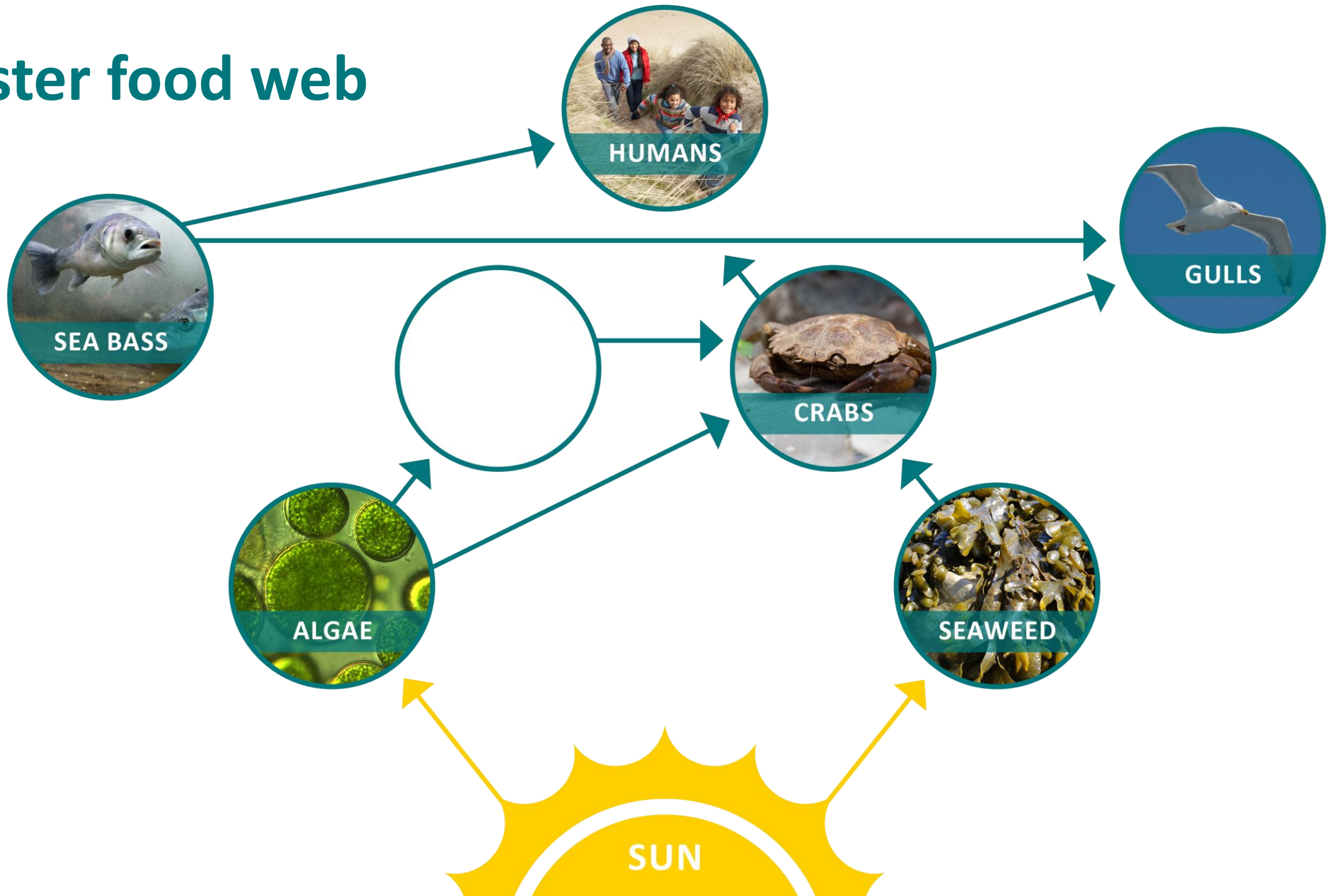
Oyster food web



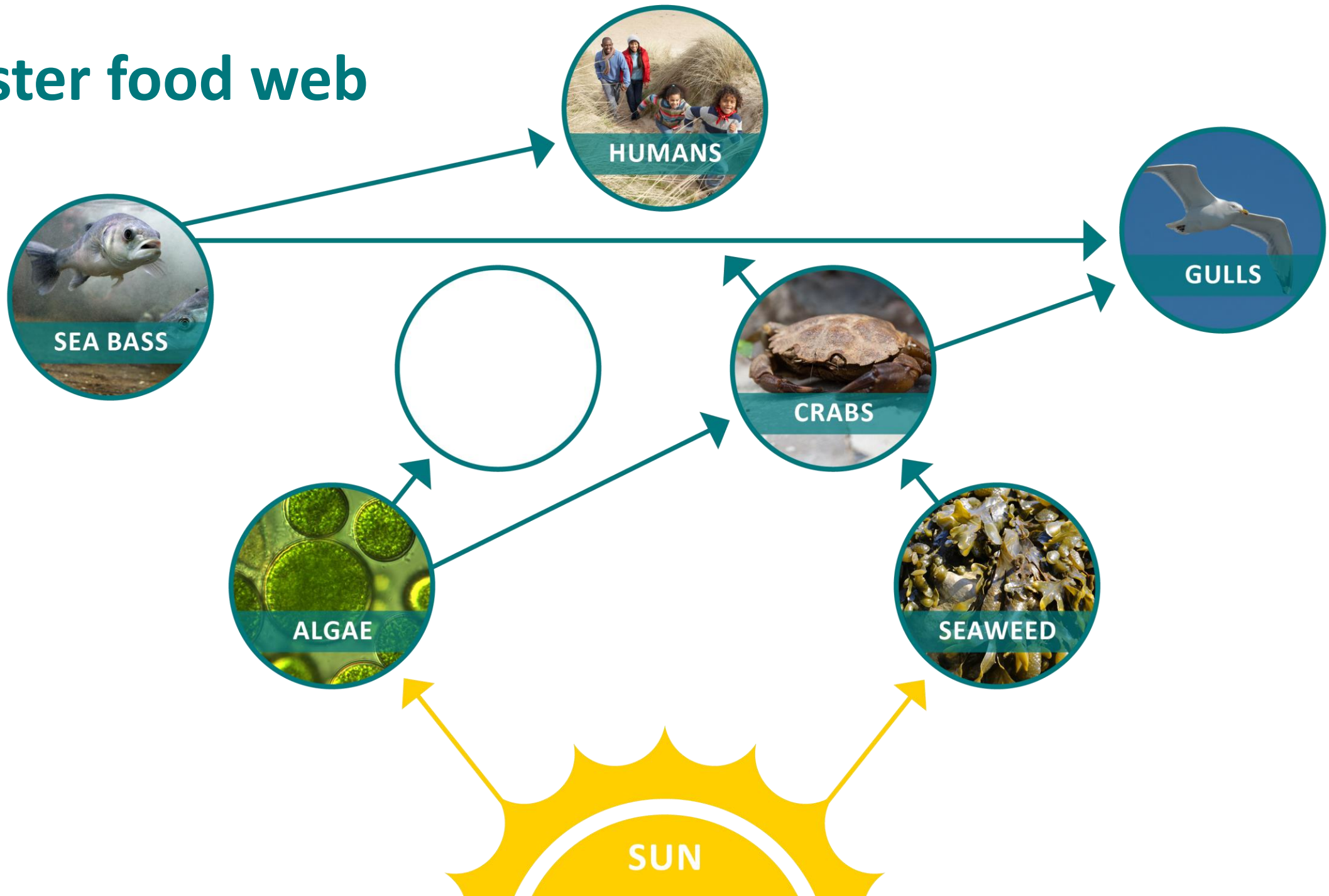
Oyster food web



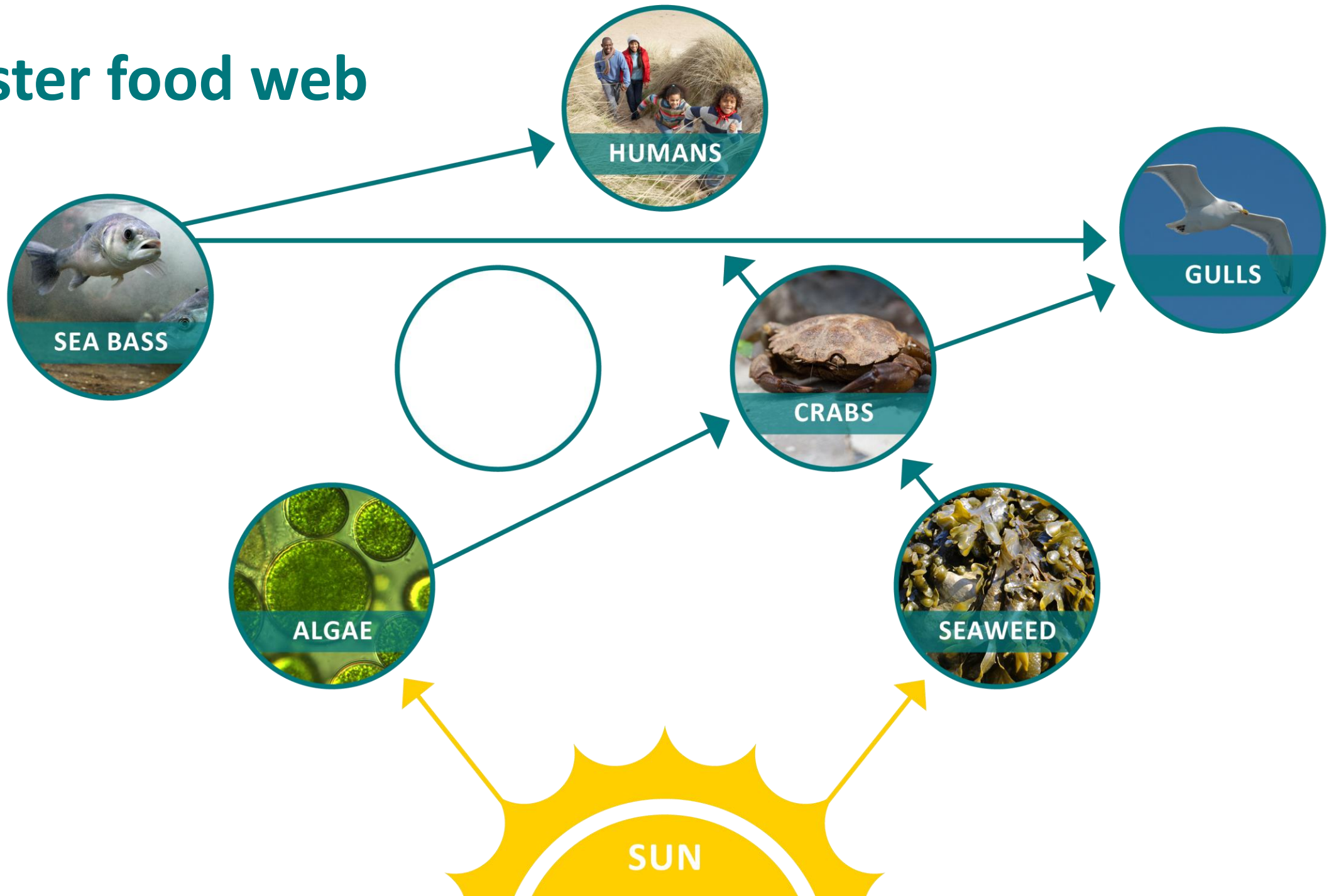
Oyster food web



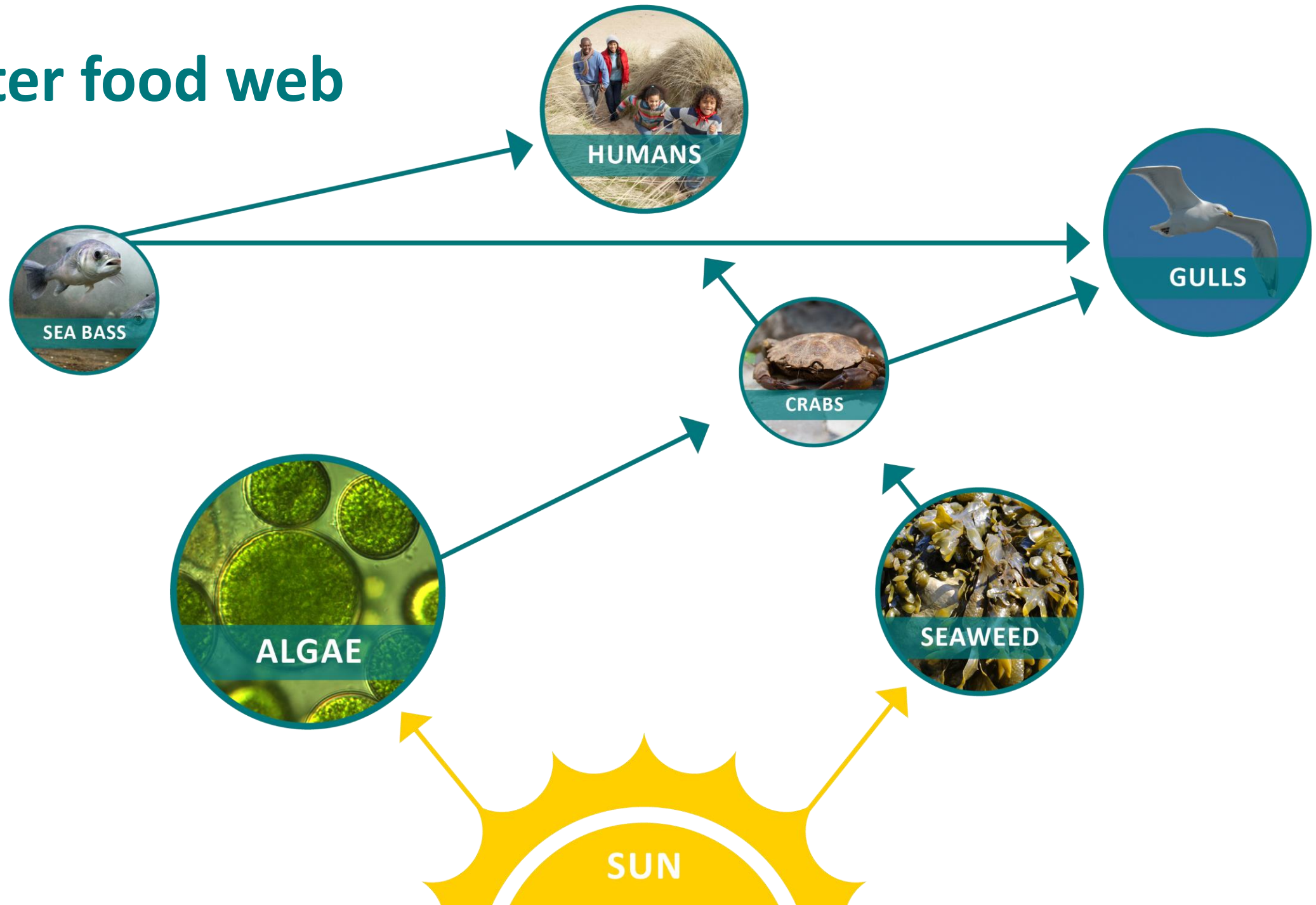
Oyster food web



Oyster food web



Oyster food web

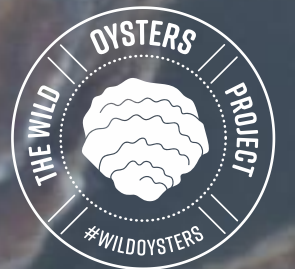


Oysters need our
help...

they are on the path to...

extinction.

95% of oysters in
the sea have died
out.





How do
we help?





We are
returning
oysters back
into the sea.



Prawn



Eel



Crab



Fish

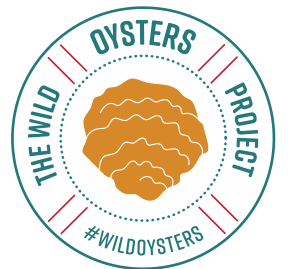


Starfish



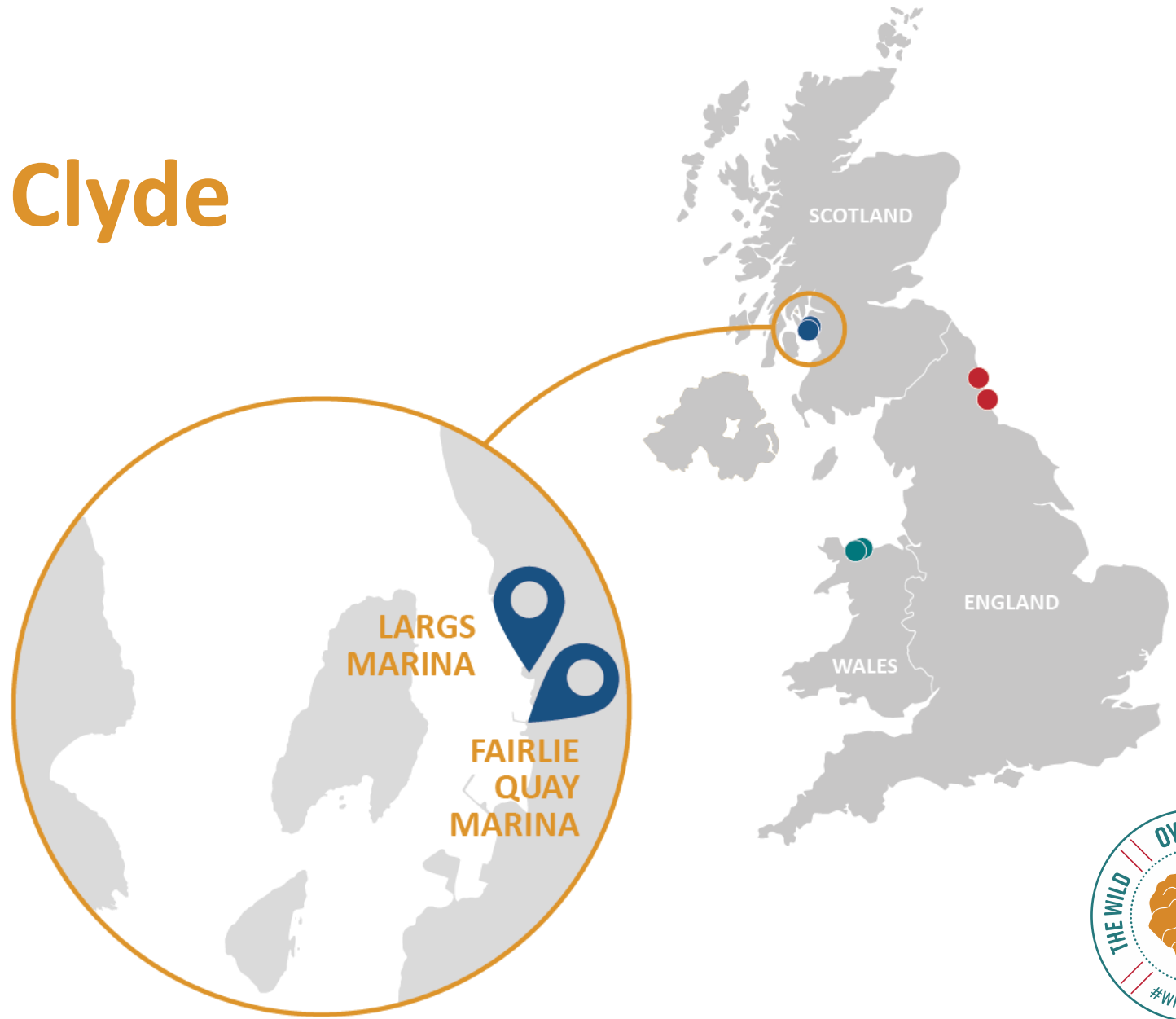
Wild Oyster Project locations

With the support of our local delivery partners, we have established three restoration hubs across the UK to recover the native oysters and the services they provide.





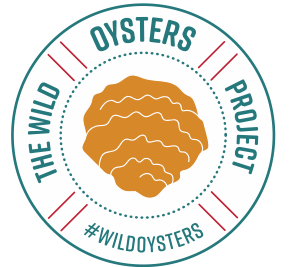
Firth of Clyde



Supported by players of



Awarded funds from



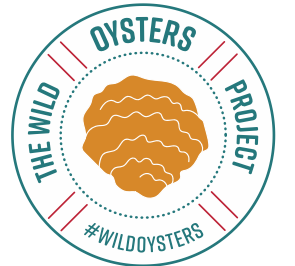


Tyne & Wear





Conwy Bay





How can you help?





HOW TO REDUCE PLASTIC WASTE



CHOOSE REUSABLE SHOPPING BAGS



SAY NO TO DISPOSABLE CUPS AND STRAWS



DO NOT USE DISPOSABLE CUTLERY



AVOID BOTTLED WATER



CHOOSE PLASTIC FREE PACKAGING



AVOID COSMETIC PRODUCTS WITH MICROPLASTICS



CHOOSE REUSABLE PADS



USE LESS DETERGENTS



DO NOT BUY SYNTHETIC CLOTHING



USE CLOTH DIAPERS



REDUCE
REUSE
RECYCLE



9 WAYS YOU CAN REDUCE OCEAN PLASTIC



1

Boycott single-use plastic



2

Join the reusable revolution



3

Shop local & request plastic-free packaging



4

Minimise bathroom & cleaning products



5

Purchase second hand instead of buying new



6

Buy fewer, high quality items made to last



7

Choose products made from recycled materials



8

Consider sharing or hiring instead of owning



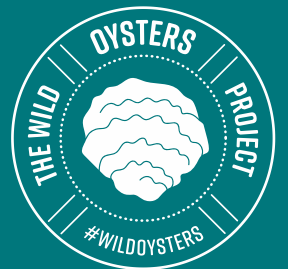
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Lead by example to inspire others too

#BeTheChange #UseLessPlastic



WWW.LESSPLASTIC.CO.UK



REDUCE
REUSE
RECYCLE



Other ways to help ...



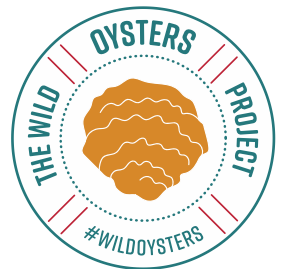
Work together



Clean up!



Share stories

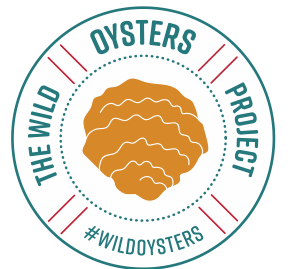


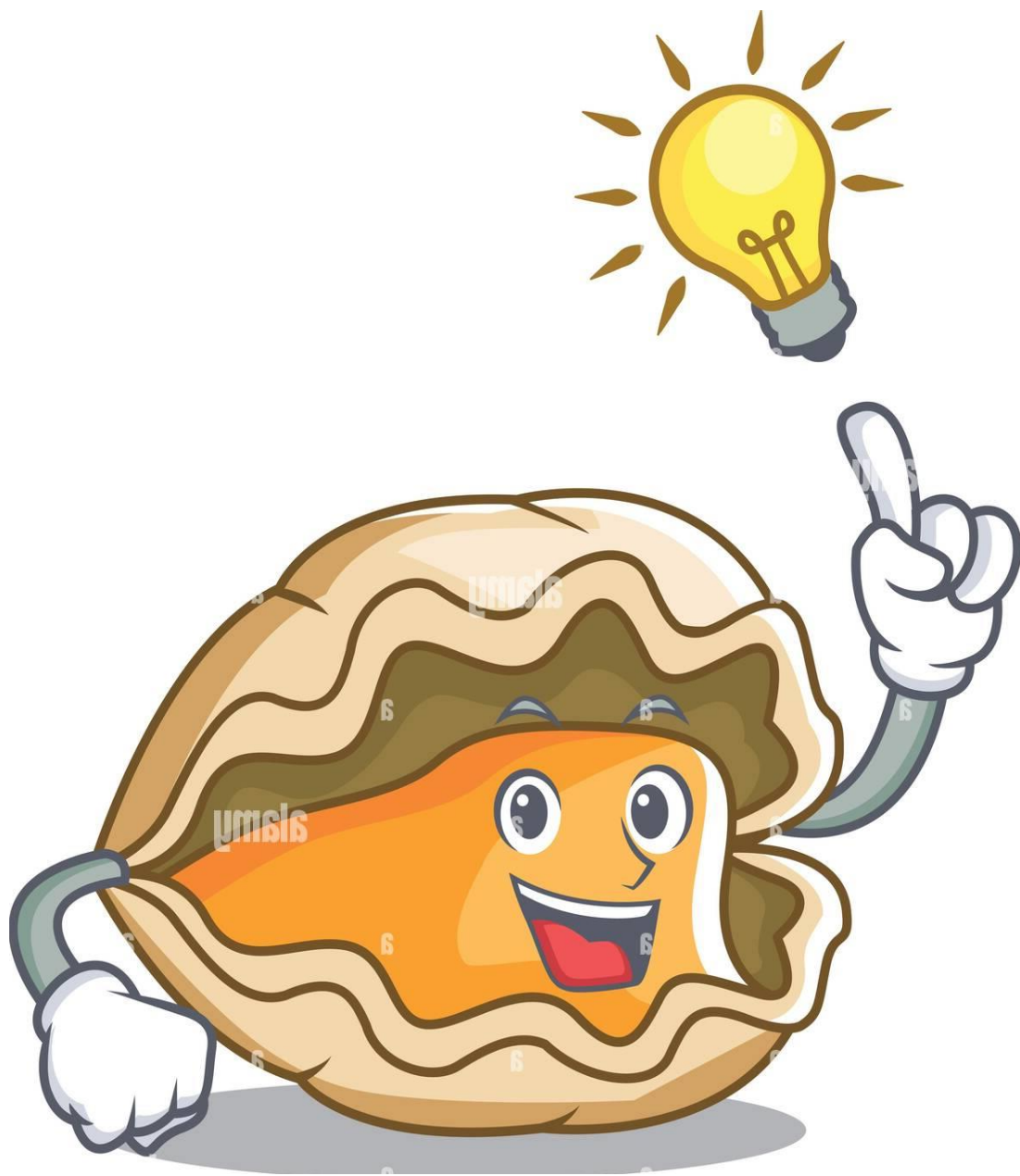


Visit us!

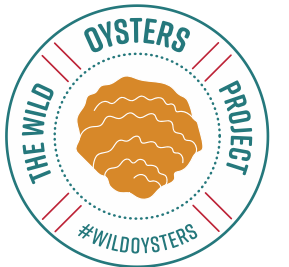
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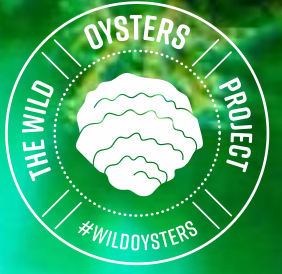


Oyster Quiz





Questions?





Wild oysters

Workshop

KS2



Working together to recover self-sustaining populations of native oysters in UK seas

