

High 5! Take one fact you learnt from last lesson write a question where this fact is the answer.

Tuesday, October 1, 2024

I CAN SEE THE SEA!

IT'S ALL PART OF THE SYSTEM



ROYAL
HOLLOWAY
UNIVERSITY
OF LONDON

Royal
Geographical
Society
with IBG



It's all part of the system

Learning Goals

1

To understand the role oceans play in the water cycle.

2

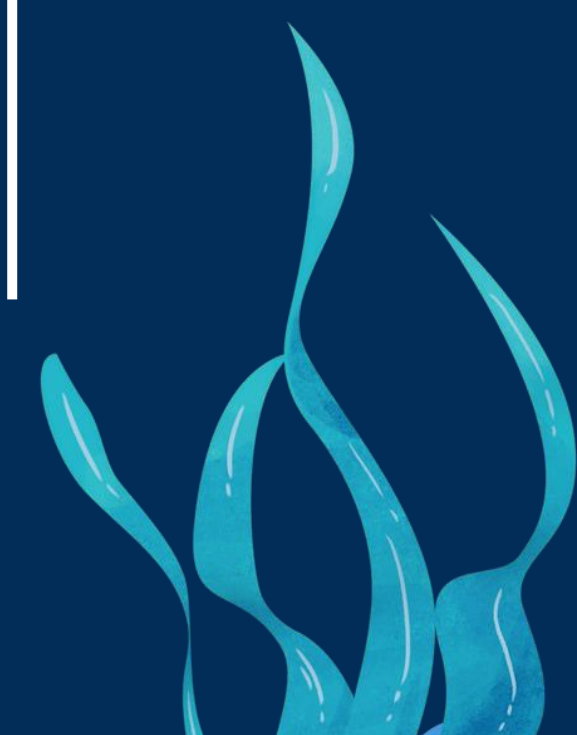
To explore key ocean food chains and webs.

3

Identify how oceans are part of people and society.

4

Predict potential futures for oceans.



Key Terms

Producers ~ Consumers ~ Predator

Royal Geographical Society with IBG

78%

78% of all global precipitation occurs over the ocean.



86%

86% of all global evaporation comes from oceans.



OCEANS AND THE WATER CYCLE

Heat Balance

When the water condenses it releases heat helping to transfer warmth from the Tropics to the rest of the planet.



Water Transfer

Evaporated water vapour condenses into clouds and falls as precipitation far away from where the water was originally evaporated.



Key terms

Condensation: water vapour cooling and turning into a liquid.

Evaporation: water turning into vapour when heated.

Transpiration: loss of water from plants.

Precipitation: any form of water falling from the sky i.e. rain, snow etc.



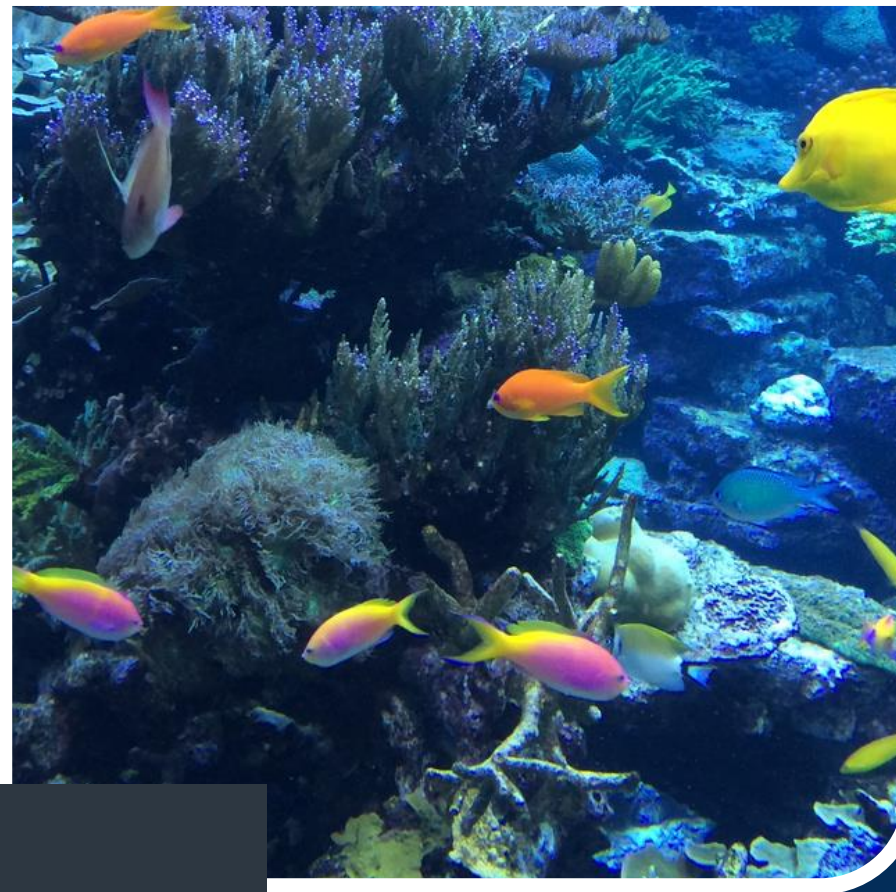
ROYAL
HOLLOWAY
UNIVERSITY
OF LONDON

Royal
Geographical
Society
with IBG

Ocean food chains and webs

TROPICAL

These are found between the Tropic of Cancer and the Tropic of Capricorn. Their waters are warm, and it is where you find Coral reefs. These reefs are home to 25% of all marine fish.

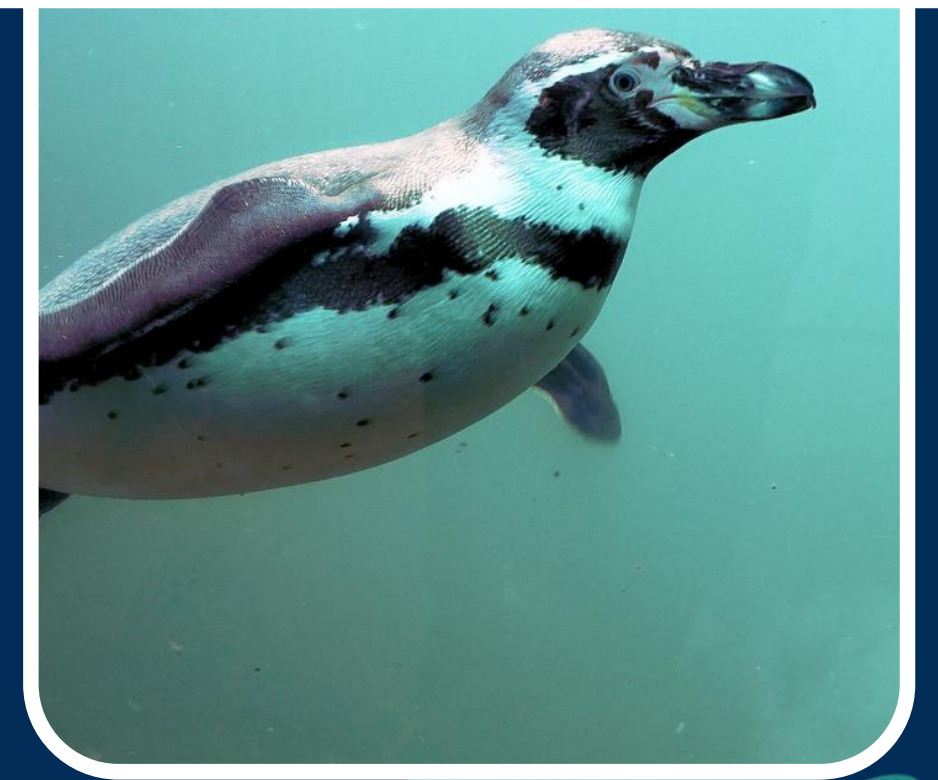


TEMPERATE

These can be found between the tropical and the polar regions. This is where warm water from the Tropics passes through to the Poles and cold polar water moves to the Equator.

POLAR

Located in the far north and south of the Earth's hemispheres it is where warm ocean currents from the Tropics cool and return to the Equator.





Did you know?
Fish can be found in
products we might not even
have thought about such as
beer, salad dressings and
even lipstick!

Oceans and people

Oceans are very important to people. They provide us with a source of food, but they are also home to vast resources such as oil and natural gas.

90% of the things you will find in your home have travelled by ships at sea to get to you. People harm oceans by polluting them with plastics, overfishing and killing wildlife, but they also protect oceans by creating laws to limit how we can use them.



ROYAL
HOLLOWAY
UNIVERSITY
OF LONDON

Royal
Geographical
Society
with IBG



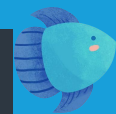
What happens if...?

You will have a scenario to consider in groups. You need to work together to think about how you would consider it to help the marine environment and people.

Be ready to talk about your ideas to the class!



ROYAL
HOLLOWAY
UNIVERSITY
OF LONDON



Royal
Geographical
Society
with IBG