

OCEANS KNOWLEDGE ORGANISER - Class 6

World Map and Overview

The surface of the planet is 71% water. It contains 5 oceans: The Arctic, Atlantic, Indian, Pacific and Southern Oceans.



- The different oceans are shown by the different shades of blue on the map.
- All of the oceans are actually connected together.
- Because the oceans are so large, people sometimes break them down into even more categories, e.g. the 'Northern Atlantic' and the 'Southern Atlantic.'
- The word 'ocean' comes from Greek, meaning 'great stream.'

The Five Oceans

Pacific Ocean



- The Pacific Ocean is the largest ocean in the world. It covers nearly one-third (30%) of the Earth's surface. It separates Australia and Asia from North and South America.
- The name Pacific Ocean means the 'peaceful sea' in Portuguese.
- Some of the main features in the Pacific Ocean include the Mariana Trench and the Hawaiian Islands.

Atlantic Ocean



- The Atlantic Ocean is the second largest ocean in the world. It covers about 20% of the earth's surface.
- It separates North and South America from Europe and Africa. It contains the Gulf Stream.

Indian Ocean



- The Indian Ocean is the third-largest ocean in the world. It is the warmest ocean in the world!
- It lies south of India and separates Australia from Africa. It contains Madagascar and Sri Lanka.

Southern Ocean



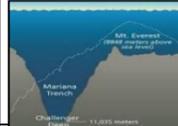
- The Southern Ocean is the second smallest ocean. It is in the southernmost part of the world - around Antarctica.
- As it is so far south, much of the Southern Ocean is normally covered in ice (like the Arctic Ocean).

Arctic Ocean



- The Arctic Ocean is the smallest and shallowest of the world's oceans. It is in the northernmost part of the world.
- For much of the year, the Arctic Ocean is covered by ice. It has lots of fresh water, from melting ice.

Interesting Features

Mariana Trench		The Mariana Trench is the deepest part of the Ocean. Its very deepest point, the Challenger Deep, is 10,971 metres deep! Even though it is very deep, a few people have visited it in submarines!	Where? Pacific Ocean, near the island of Guam.
Hawaiian Islands		The Hawaiian Islands are a series of eight islands in the Pacific Ocean. Even though they are a long way from the mainland, the islands are a state of the USA. They contain several large volcanoes.	Where? 1500km across the Pacific Ocean.
Gulf Stream		The Gulf Stream is a huge, warm, ocean current that moves from the Gulf of Mexico to North America and Europe. It helps to keep these places from getting too cold in the winter time.	Where? Atlantic Ocean, from central America northern to Europe.
Tides		Tides are the rise and fall of the levels of the ocean. They are caused by the pull of gravity from the Moon. Tides cycle as the Moon moves around the Earth. Therefore the oceans are always rising and falling.	Where? All over the world, in all oceans!
North Pole		The North Pole is actually a frozen part of the Arctic Ocean - there is no land beneath the ice! Because the ice keeps shifting on the ocean beneath, people keep having to move the flag that marks the Pole!	Where? In the middle of the Arctic Ocean.

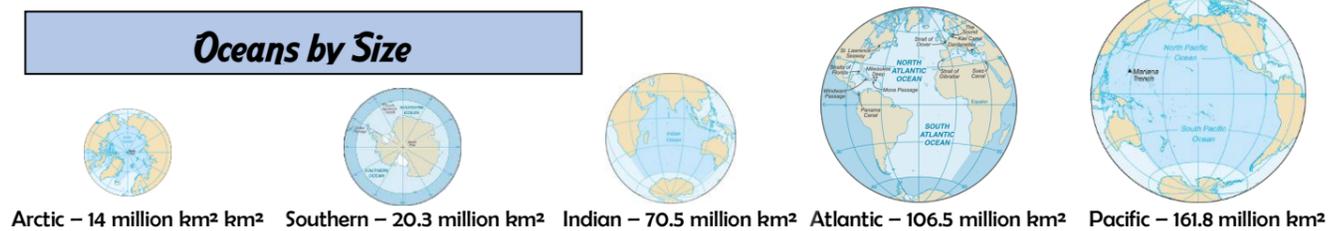
Top Ten Facts

1. The average depth of the ocean is about 3.7km deep!
2. The Pacific Ocean contains about 25,000 different islands!
3. Around 95% of life on Earth lives in the oceans.
4. It is thought that we haven't yet discovered millions of creatures that live in the oceans.
5. The largest creature that has ever lived, the blue whale, lives in all of the world's oceans.
6. The longest mountain ranges in the world are underwater: the mid-Atlantic and the mid-Oceanic ridges.
7. Over 70% of the oxygen in the world is released from the ocean.
8. The Pacific Ocean is wider than the Moon!
9. In fact, more people have been to the Moon than the bottom of the Mariana Trench!
10. Without travelling in a specially-designed submarine, the pressure in the deep ocean would crush you in no time!

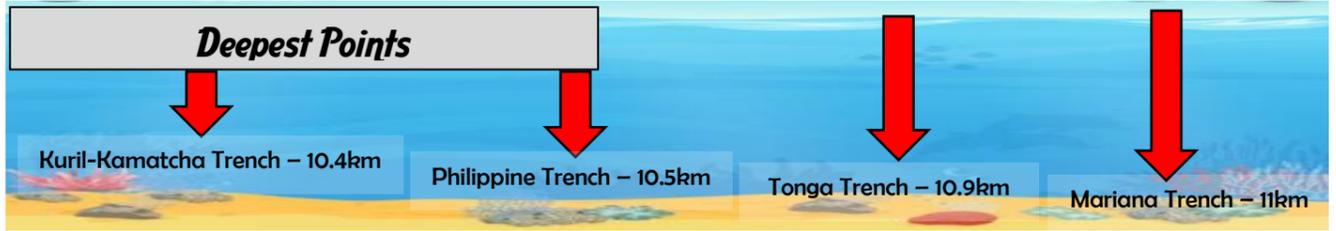
KEY VOCABULARY

- SCIENCE:**
- Food chain, food web
 - Predator, prey, producer, consumer
 - Evaporation, condensation
 - Sieving, filtration
- GEOGRAPHY:**
- Sustainability, pollution, environment, micro-plastics
 - Surface, ocean, depth, habitat, inhabitants, ecosystem, ecology, conservation
 - Northern/Southern hemisphere, Tropic of Cancer/Capricorn, Arctic/Antarctic circle

Oceans by Size



Deepest Points



ENVIRONMENTAL ISSUES

PLASTIC OCEANS TRUST

THE PROBLEM WITH PLASTIC AND OUR OCEANS

THE TOP 3 ITEMS FOUND IN THE WORLD'S OCEANS

- 80% of all marine debris found in the ocean is land based, and 80-90% of marine debris is made from plastic.
- 8 MILLION METRIC TONNES** OF PLASTIC IS DUMPED INTO THE OCEAN EVERY YEAR. ENOUGH TO COVER EVERY FOOT OF COASTLINE ON THE PLANET
- 1,140,222** FOOD WRAPPERS & CONTAINERS
- 1,065,171** PLASTIC BEVERAGE BOTTLES
- 1,019,902** PLASTIC BAGS

BY THE YEAR **2050** THERE WILL BE MORE PLASTIC THAN FISH IN OUR OCEANS.

Many marine species including **turtles, fish, whales** and **seabirds** consume or get trapped in plastic, which often results in **death**. They have been found with plastic bits in their **stomachs**, as well as plastic chemicals which have migrated into their **bodies**.

CHANCES ARE THAT IF YOU ARE **EATING SEAFOOD, YOU ARE EATING PLASTIC TOO.**

THIS INFO IS POWERED BY **Slow fish** SLOWFOODBARBADOS WWW.SLOWFOODBARBADOS.ORG

SHARK FINNING

Before a shark reaches sexual maturity, it has a high chance of being finned.

Shark finning is the practice of removing the fins from a shark while it is still alive.

Approximately **2%** the shark is harvested during the shark finning process.

The other **98%** is tossed back into the sea where the mutilated shark sinks to the bottom of the ocean and dies of suffocation.

Shark finning is a very lucrative business due to the high demand for **SHARK FIN SOUP**.

Shark Fin Soup is a Chinese dish that is usually eaten at weddings or special occasions. A bowl of Shark Fin Soup can sell for as much as **\$100** US per bowl.

In 2012, it was estimated that **100 MILLION** sharks were killed for their fins. Of that number, it was reported that approximately **73 MILLION** sharks were killed for **SHARK FIN SOUP**.

That is **96** sharks every **30** seconds.

90 of which are killed for one dish.

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