

## **Project Green Diving**

Ocean Literacy

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## **INDEX OF THE COURSE**

- Green Skills
- Ocean Literacy
- Human Impact
- Ocean Benefits/ Importance
- Geology
- Deep sea





## **Learning Objectives**

- Understading the dynamics of the ocean and their importance to the biosphere
- Increase environmental awareness of ocean health
- Understand ocean cycles and its changes due to human activity





## **7 Ocean Literary Principles**



## 1. Earth has one big ocean with many features





## 1. Principle



## • **Responsible for the production of:**

50% - 80%





## Phytoplancton

# Responsable to make the ocean critical to the development of life on land

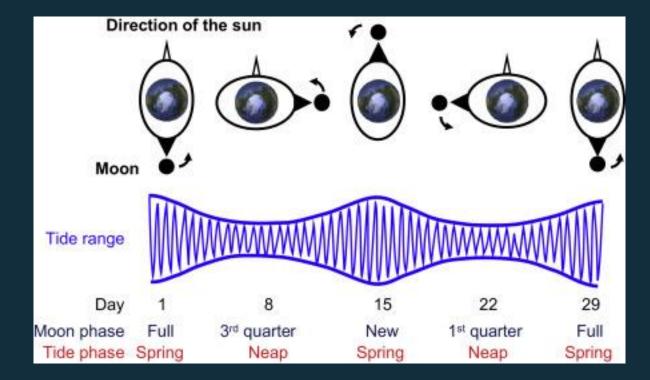
## Ocean Importance



GREENDIVING

## Tide variation influences habitats dynamics

1.







## 97% of the entire planet's water is found in the ocean





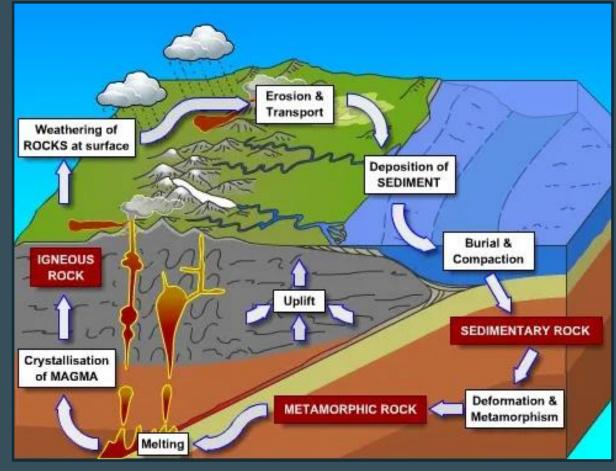
## 2. The Ocean and life in the Ocean shape the features of the Earth



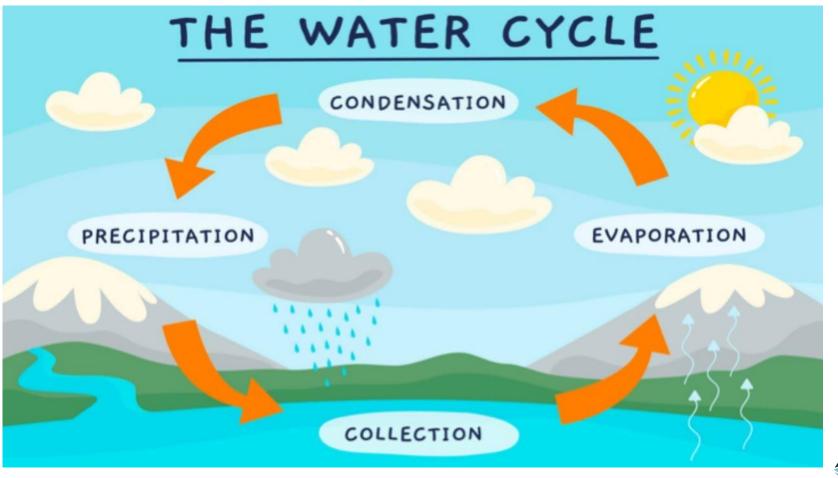


## 2 Principle

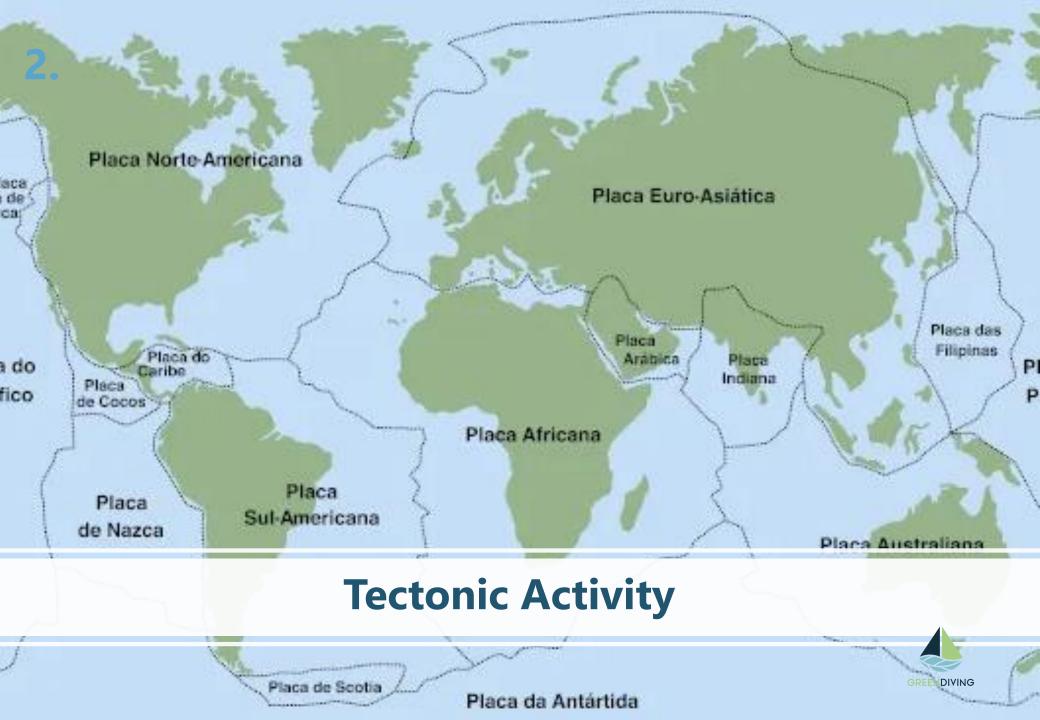
Many Earth materials are originated in the ocean such as sedimentar rocks found on land today



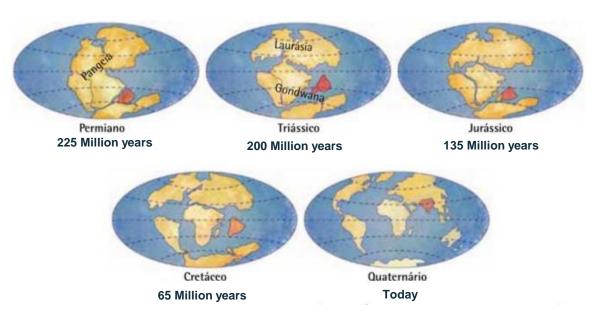








## Tectonic evolution of the Planet



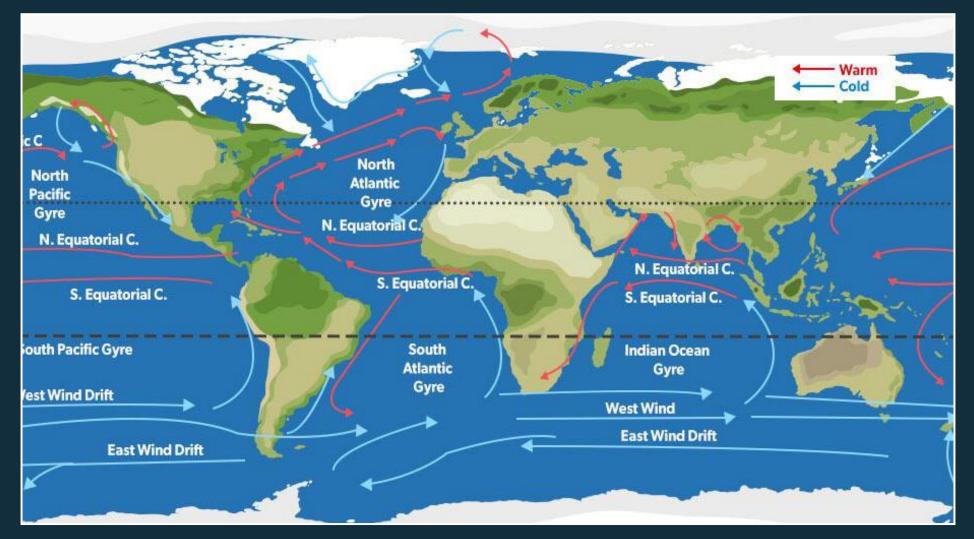






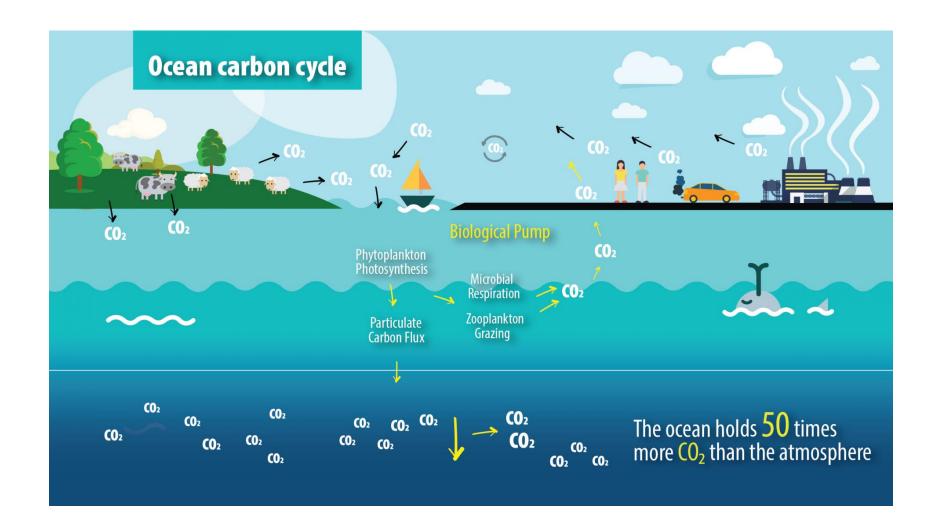
## To protect the Ocean we first need to understand it.

## 3. Principle

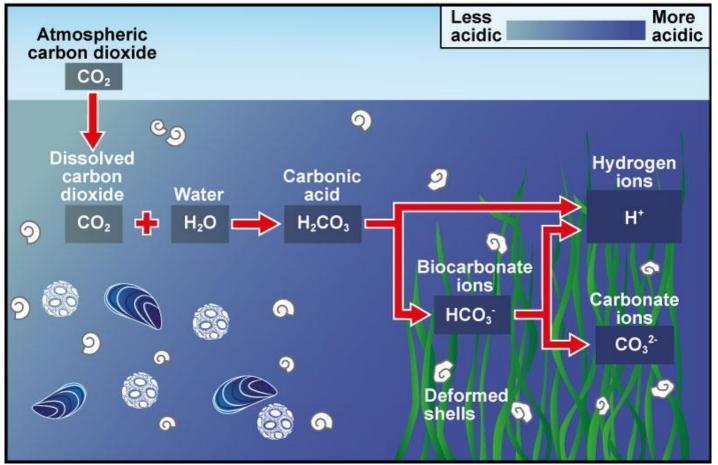


## **Responsible for climate regulation**



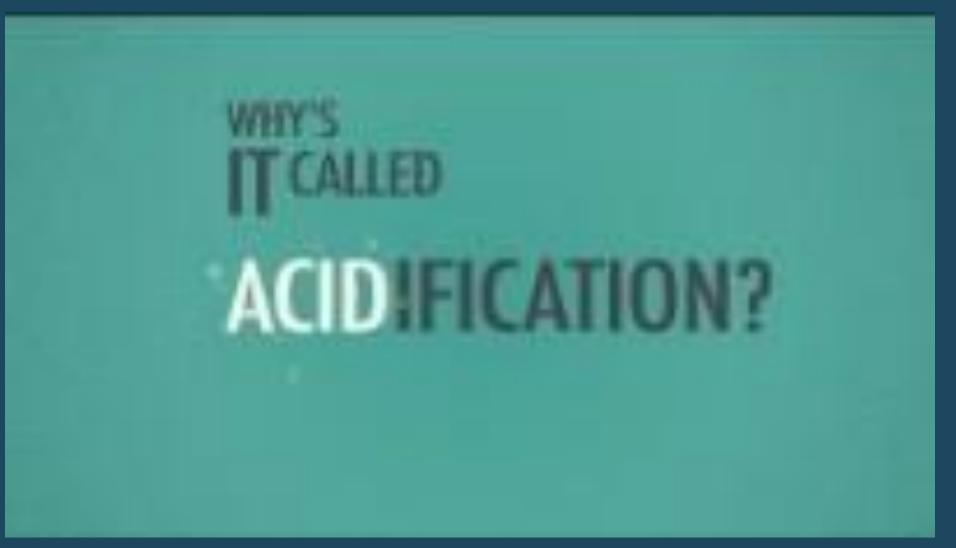






Increased carbon dioxide in the atmosphere increases carbon dioxide retention in the ocean, causing ocean acidification

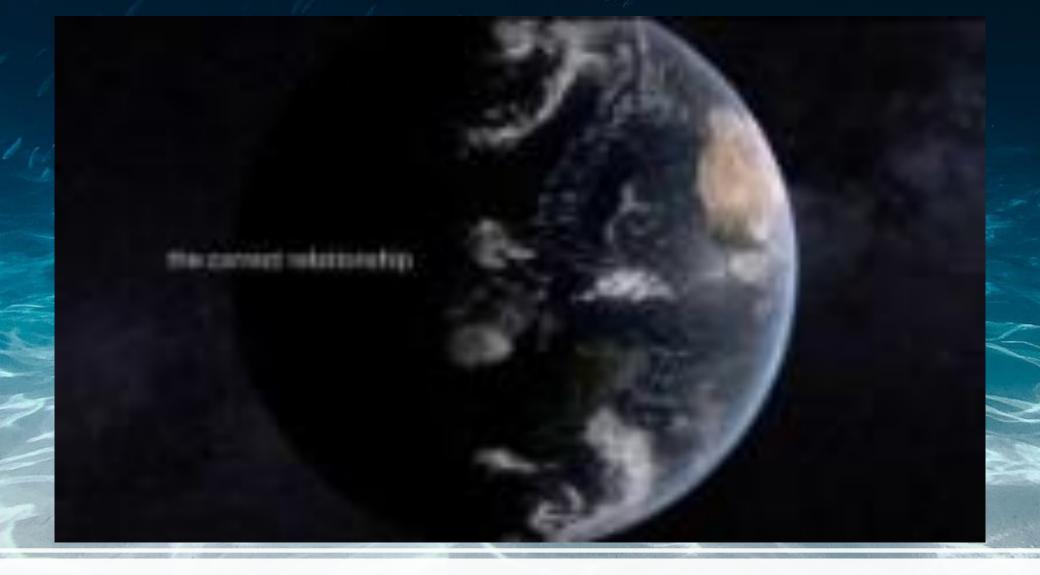




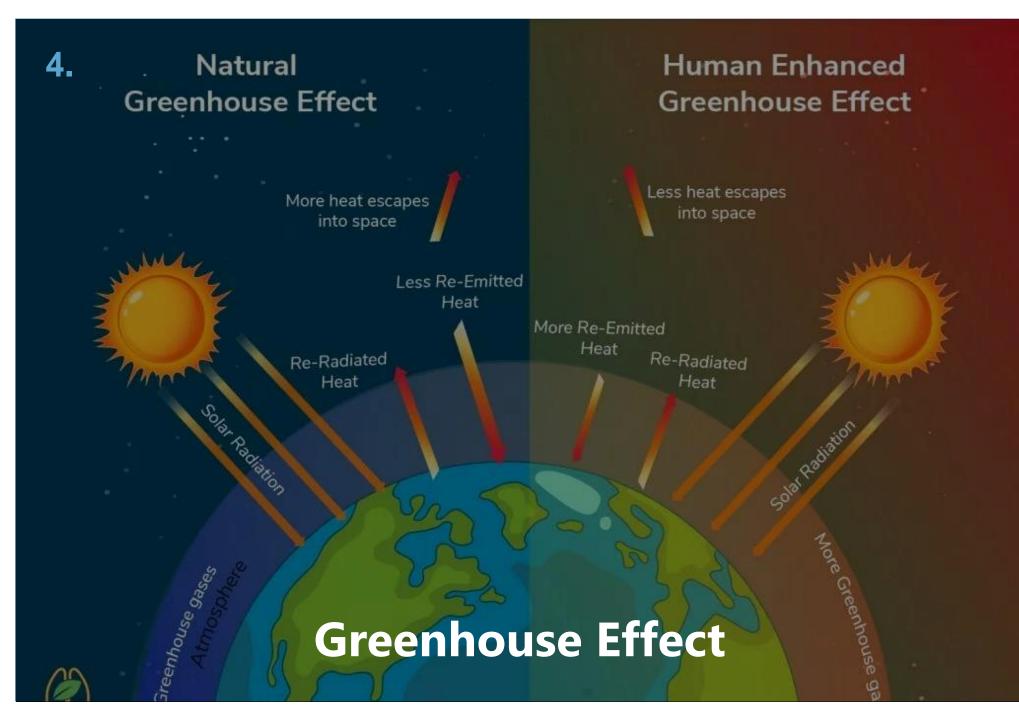


## 4. The Ocean makes Earth habitable





## 4. Principle



# 5. The Ocean supports a great diversity of life and ecosystems





## 5. Principle

## Sea turtles travel thousands of kilometers across the oceans and with them....

They carry around 150,000 tiny animals in their carapaces.

> (larvae, crustaceans, shrimp, nematodes)









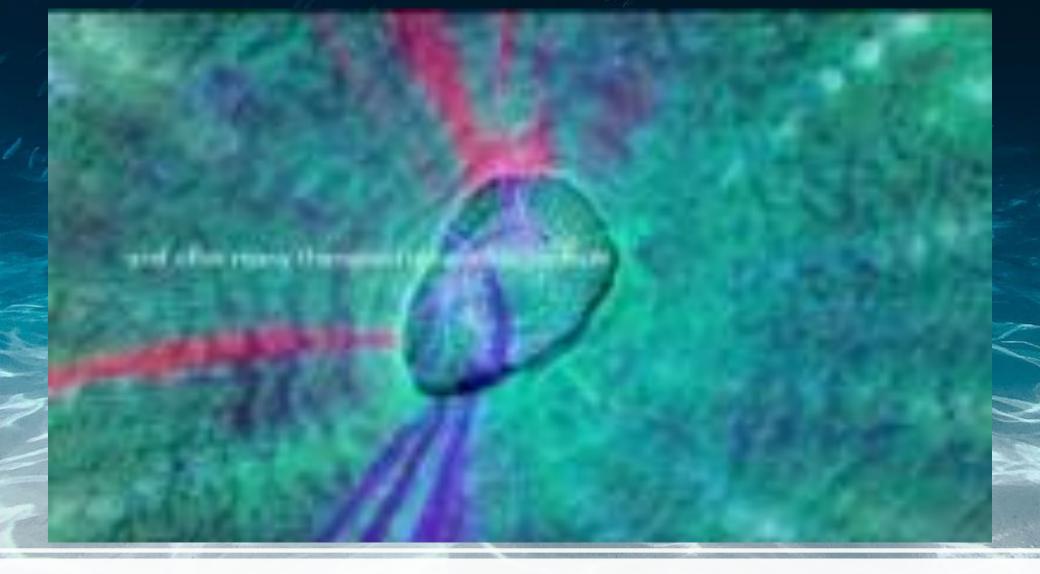
## 6. Principle

Ocean is a main source of supply for Humans and life as we know

6.

# 7. The Ocean is largely unexplored





## 7. Principle

## Mariana Trench

## 10,994 m Depth



Mariana Trench

**Commercial air** 

cruising altitude)

(Common

10,668m

**Mount Everest** 

highest peak)

(World's

8,848m

10.994m



## **Deep Sea Animals**



## **Group Activity**



## REFERENCES

## • <u>UNESCO</u>

https://www.youtube.com/@UNESCO/

### UNESCO

<u>https://oceanliteracy.unesco.org/principle</u>
<u>s/</u>



## **CONSORTIUM**







ESCOLA DO MAR . ACORES

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## Thank you!

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