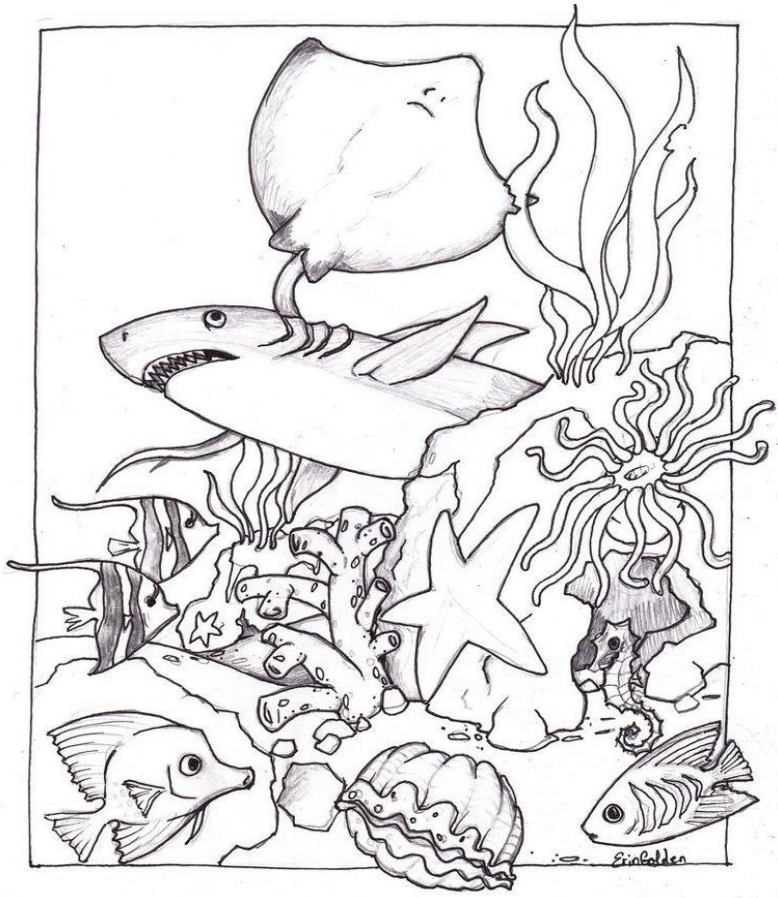
All About the Ocean:

An Introduction to Marine Biology



FreedomWaters Foundation

Have you ever wondered what lies beneath our oceans? Or what crabs eat? How about how dolphins sleep? Well it is a marine biologist's job to find answers to all these questions!

Marine Biologists are scientists who study living things in the ocean. They can study anything from sea anemone to whales or from sharks to plankton.

Help our marine biologist friends by identifying these ocean creatures! Match their pictures with their names.

Sea Anemone

Krill

Stingray

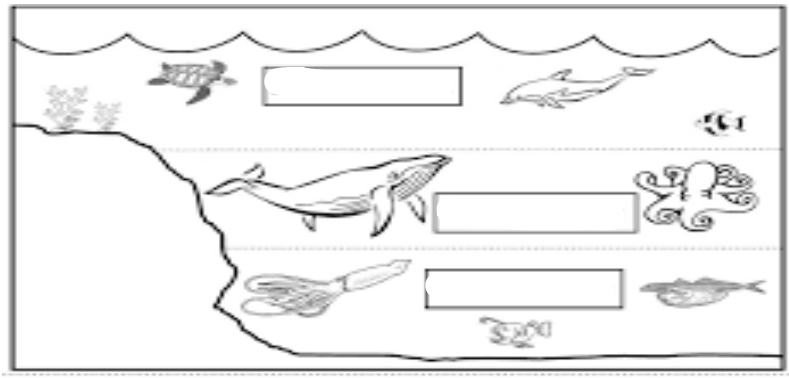
Seahorse

Blue Whale

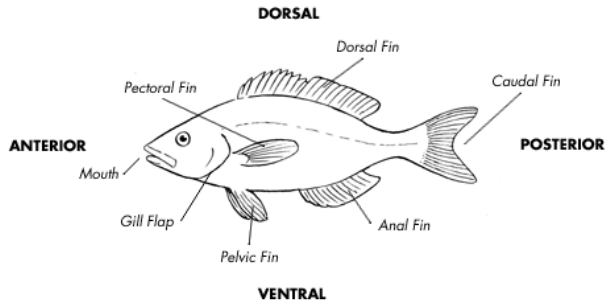
The ocean covers around **71% of Earth's surface**, so marine biologists can work from all over the world to study ocean organisms in different oceans. To make their research easier, oceans are separated into layers called **ocean zones**. Each zone has a different amount of sunlight passing through them.

There are **three zones of the ocean**: the photic, bathyal and abyssal zone. The **photic zone** is the top layer of the ocean and it gets the most sunlight. Next is the **bathyal zone,** which gets a lot less sunlight, and finally there's the **abyssal zone**, where there is no sunlight.

Label the layers of the ocean!

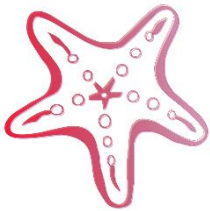


Marine biologists must know all about the different parts of many ocean animals. Below, we have a fish with multiple important parts labeled:



Notice the different names of the fish's fins and where they lie. On the space below, draw a fish and label its fins

Being a marine biologist means that you only work with organisms who live in **saltwater.** But what makes ocean water salty?



Over time, rain and ocean water break down rocks. These rocks contain salt, which is released when broken down and carried to the sea by rainwater.

Activity

- Make your own saltwater at home by adding a few tablespoons of table salt to a cup of water.
- Try leaving the water outside for a few hours
- Did the salt evaporate with the water? Why or why not?

Word Search: Marine Biology Vocab

Q D A N T E R I O R I H F H K Q P D A W
R U D C R R D N Q H D B G X B Z X K F H
B U O U D F X D R L Z R V Z C W Q K Q A
A W R A B S V H W P A L F L L I G L M L
T S S P K L T L S D O L P H I N Y Q U E
H U A L G Y S T M P O S T E R I O R V F
Y B L D I A I K K D F O C E A N Z O N E
A R F E B N G R L O Y I V D X C Z Q J V
L R I E G L O A T X G K C T A Z R P T A
D A N R N P L H A K D E H U U B E A B P
G B A J O H O S F F N J D E J C D K B O
R Y Q K G O I S P O R A C T T S X C R R
C S J L S T B I M L L J V O H P K E G A
L S R V A I E E G F X V R V L L T T Z T
O A W R X C N E I L R A A L E A S J N I
F L S T M A I N U H L R I H W N P L C O
U J X R A C R T G F V R S T H K T A B N
A R F E O F A C I Y K P L S G T U R N Q
G R S H E D M N S B V A U H M O Z Y A E
C W J S M X A V S K S N X G O N E X H L

MARINE BIOLOGIST
CRAB
DOLPHIN
SEA ANEMONE
WHALE
SHARK
PLANKTON
KRILL
STINGRAY
OCEAN ZONE
PHOTIC
BATHYAL
ABYSSAL
DORSAL
ANTERIOR
VENTRAL
POSTERIOR
PECTORAL FIN
DORSAL FIN
GILL FLAP
CAUDAL FIN
SALTWATER
EVAPORATION

All About the Author:

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I hope you enjoyed All About the Ocean: An Introduction to Marine Biology! As a marine biology student at Florida Gulf Coast University, I have always been enthusiastic about sharing in the wonders of the ocean with others, which drove me to work with Freedom Waters Foundation, which works selflessly to create memorable experiences for others in the waters of South Florida. After reading about their passion for creating therapeutic boating experiences, I was inspired to create this activity book to potentially introduce young children to the amazing world of marine biology. Thank you for this great opportunity, and always keep exploring!