



# INTRODUCTION

This part includes:

- ✓ 8 Pages
- ✓ 11 Questions
- ✓ 1 Tangent
- ✓ 4 Digital Bus Videos
- ✓ 18 Vocabulary Words
- ✓ 1 Introduction Quiz

DATE ASSIGNED: \_\_\_\_\_

DATE DUE: \_\_\_\_\_

# Manō: Sharks of Hawai'i

## Introduction



Video 2.1



Hey again! Ready to begin!?  
Can you please answer a few questions just to see what you already know about sharks?  
It's just a game so don't worry if you're aren't sure of the answers, you'll be able to try again later! [CLICK HERE](#)  
Let's continue by finding out some basic facts about **Sharks**! Here is a short movie for you to watch: [CLICK HERE](#)



Ok, here are some questions from the movie just to warm up our brains:



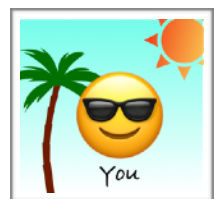
1. What is the name of the biggest living shark today?

ANSWER: \_\_\_\_\_



2. What is the name of the biggest shark ever?

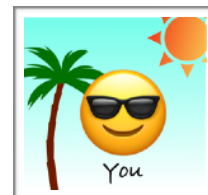
ANSWER: \_\_\_\_\_





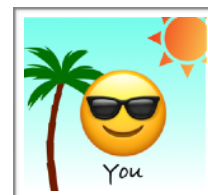
3. How many teeth can a shark loose in its lifetime?

ANSWER: \_\_\_\_\_



4. What is the fastest shark?

ANSWER: \_\_\_\_\_



I'm sure you already knew how awesome sharks are, but it's always nice to see a short video about it.

Before we really start with our lesson, here is the outline on what we are going to cover:



Video 2.2



1. Is a shark a fish?
2. What is the shark population?
3. How do we identify sharks?
4. The shark dissection!



Let's get started with the first super important question! I know it's going to sound silly.



What is a fish?

What do you mean, what is a fish? I know what a fish is!



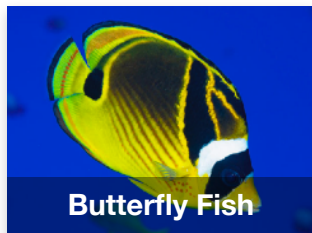
Video 2.3



I mean, what makes a fish a fish? Can you come up with 5 things that make a fish a fish?



Check out some of these pictures of fish we find in Hawai'i, then try to come up with the answer to what makes a fish... a fish!



Butterfly Fish



Jack



Unicorn Fish



Cleaner Wrasse



Eel



Pet Goldfish

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_



### TANGENT: 'Ike Hawai'i

The names of the fish above are in English, however, since we are learning about animals in Hawai'i, we must learn their 'Olelo Hawai'i (Hawaiian) names. Get a piece of paper, draw those six fish and do some research to find their Hawaiian names. Write them nice and big on the paper!



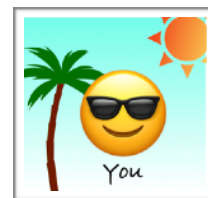
Awesome! You should have come up with something like this:

A fish is an animal. It lives in the water. It has gills to breath. It has fins. It has scales.

Maybe you also put down things like this:  
Some can be big, some small. Some eat meat, some eat plants. Some lay eggs. It can be cold blooded.

There are a lot of answers you could have written down, but those five that are in yellow are the ones I want you to remember!

Got it! I'll go back and double check everything.



Ok, so now that we know how to explain what a fish is, check out these pictures and answer this:

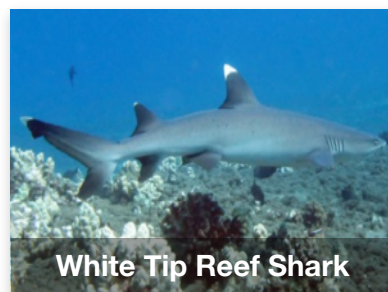
**Is a shark a fish?**



Whale Shark

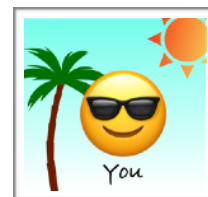


Tiger Shark



White Tip Reef Shark

ANSWER: \_\_\_\_\_



I'm going to give you the answer on the next page, don't peek! Just think about your answer one more time!

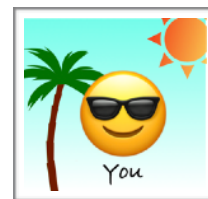




Sharks are fish! People seem to think they are some other type of animal, but they're fish!  
**How can you explain why sharks are fish?**

\_\_\_\_\_

\_\_\_\_\_



Even though sharks are fish, there is something that makes them different from a lot of the other fish! Let's compare these two animals:

List of all fish in the shark group!  
[CLICK HERE](#)



**Tiger Shark**



**Jack**

List of all fish in the other group!  
[CLICK HERE](#)



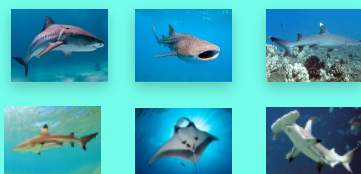
We know that both of these animals are fish. All of the common fish can be separated into two different groups of fish!



In one group there are all the fish that we commonly think of when talk about fish, like the jack and butterfly fish. In the other group we have the sharks and their cousins, the rays!

**GROUP 1**

THE \_\_\_\_\_



**ALL FISH IN THE WORLD**

**GROUP 2**

THE \_\_\_\_\_

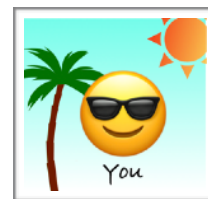




Can you come up with a few more examples that would go in Group 2 with the Jacks and Butterflyfish? You can think of cartoons too!

\_\_\_\_\_

\_\_\_\_\_

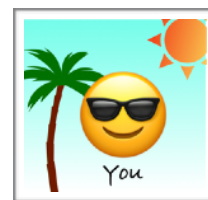


Now here is the crazy part! There is only one big thing that makes all the sharks so different from the other fish that we put them in a different group.



**Can you name the one thing that makes sharks different from all the other fish?**

**ANSWER:** \_\_\_\_\_



If you're stuck, now is a good time to do a little bit of research on your own to try and find the answer!



Maybe you got it, maybe not... either way I want you to grab your ear. Can you smoosh it around a bit? Can you also give the top of your head a few knocks?



One should be hard and one should be soft. Under your hair and skin on your head is your skull, and your skull is made of bone. Your ear is made of something else...



Video 2.4



It is made of cartilage.

More information about cartilage compared to bones

[CLICK HERE](#) and [CLICK HERE](#)

What does my ear have to do with sharks?!



Well, the sharks have a skeleton, like you, but their skeleton is only made of cartilage. They don't have any bones!



All of the other fish, like that goldfish and the jacks have skeletons too, and theirs are made of bones!

So the one thing that makes sharks different from all the other fish is that they don't have bones?



You got it! They have cartilage skeletons. We call them the cartilaginous fish. Based on that name, what do you think we call all the other fish?

ANSWER: \_\_\_\_\_



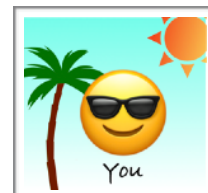




You got it again, the **bony fish**! Go back to page 9 and write down the names of the two different groups of fish in the bubbles.

That was a great start to talking about sharks. I hope you have some questions, and maybe some things you'd like to share about sharks! Write them down to talk about it with your class, teacher, and me!

Questions and things I want to talk about



#### VOCABULARY

Shark

Fish

Population

Identify

Dissection

Animal

Gill

Fin

Scale

Skull

Bone

Cartilage

Cartilaginous Fish

Bony Fish