



PART 1: Population

This part includes:

- ✓ **8** Pages
- ✓ **7** Questions
- ✓ **2** Tangents
- ✓ **1** Research Project
- ✓ **4** Digital Bus Videos
- ✓ **13** Vocabulary Words

DATE ASSIGNED: _____

DATE DUE: _____

Manō: Sharks of Hawai'i

PART 1: Population



Video 2.5



Welcome back! Last time we figured out that sharks are just another kind of fish, but there is one huge thing that is different... Their skeleton is made of cartilage.

I remember; got it!



Now that we know this, we can focus more on the sharks. In this lesson we'll talk about how many sharks there are: their population; and we'll talk about things that are affecting their populations and how we are protecting sharks: threats and conservation.



Check out this map of the world, the light blue represents the oceans. Let's try to find out how many different kinds of sharks live in all the oceans in the world.





First of all, can you find Hawai'i on that map?



Ok good. I want you to come up with 3 different kinds of sharks (different **species**) that you already know. Don't look it up!
Example: The black-tip reef shark

- 1 _____
- 2 _____
- 3 _____



I bet you came up with those three pretty quickly.



How many different species of sharks live in the entire world?

Take a guess without looking on the internet!

**SPECIES OF SHARKS
IN THE ENTIRE
WORLD**

My
guess is:

The
correct answer is:



Ok, but what about here in Hawai'i?
How many different species of sharks live in the ocean around Hawai'i?

**SPECIES OF SHARKS
IN HAWAI'I**

My
guess is:

The
correct answer is:



Try to find the correct answers on the internet!
Was it tricky to find one constant answer to these questions from different websites?



It's really hard to find an exact number! Some resources will say 392 species in the world, some say over 400, some say 421... so who is correct?



Well, we don't have an exact number, and many scientists disagree if some species are actually new ones or just variations of existing species.



So for our lesson, we are going to make sure we include the word "ABOUT" in our answer.
There are **ABOUT 400** species of sharks in the world.



And there are **ABOUT 40** species of sharks found in Hawai'i.

Make sure you go back to the previous page and write these answers down! (Don't forget "about")

Spend some time exploring some of the sharks on these websites below!

What is your favorite shark so far and why?

SHARKS OF THE WORLD
[CLICK HERE](#) and [CLICK HERE](#)

SHARKS OF HAWAII
[CLICK HERE](#)





Video 2.6



My favorite shark here in Hawai'i is the Tiger Shark. But recently I've been fascinated by the Greenland Shark (it doesn't live in Hawai'i)!



Did you know that scientists are still discovering new species of sharks. Just this year (2020) they found some amazing new ones.

[CLICK HERE](#)

RECENT SHARK SPECIES DISCOVERIES

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

Can you find more?



Now that we know how many species there are, we can start to discuss the problems some of these sharks are facing.



Did you know that many of the sharks around the world are **threatened** or even **endangered**?



Many scientist estimate that the population of sharks have declined by over 90% in the past 50 years.



Humans kill around 100 million sharks every year.

[CLICK HERE](#)

Woah, that's a lot.
But why should we care? Aren't they super dangerous to people too, so less sharks is good, right?





No way! We'll get into why sharks aren't as dangerous as we think later on. We must understand that shark are super important!



Video 2.7



Shark are an example of an apex predator. They are usually on the top of the food chain. So if too many of them are killed, the number of smaller prey that they usually eat will increase, which can completely mess up the food web and ecosystem.
[CLICK HERE](#)



Video 2.8



You might be asking yourself, why are humans killing so many sharks?

There are many reasons we kill sharks, but the reasons with the most impact are:
(CAREFUL: These links show some sad pictures of dead sharks)

1. For food, specifically shark fin soup.
[CLICK HERE](#)
2. They are bycatch (caught by accident) through long line fishing.
[CLICK HERE](#)
3. They are killed because humans are scared of sharks (this is called shark culling).
[CLICK HERE](#)
4. Their habitats are being destroyed.
[CLICK HERE](#)

Tangent:
'Ike Hawai'i

For many reasons Manō are extremely important to the Hawaiian culture:
[CLICK HERE](#)

Can you find more reasons and share them with me?



In your opinion, which one of the reasons above do you feel most strongly about, and why? There is no wrong answer! This is an opinion.

Two horizontal lines for writing a response, contained within a blue speech bubble shape.



MORE RESOURCES ABOUT SHARK CONSERVATION

The ten most endangered sharks. [CLICK HERE](#)

Shark population in Australia. [CLICK HERE](#)

Shark finning. [CLICK HERE](#)

What if there were no more sharks? [CLICK HERE](#)



There is some good news though!
[CLICK HERE](#)



On top of everything, another huge problem is that sharks have gotten a very bad reputation. They have been **vilified** (made into bad guys).

While it is true that some sharks can be dangerous to humans, this doesn't mean that sharks just want to eat our brains at every chance they get!

We humans like to be entertained by stories of monsters in the movies, and the shark makes a very good monster.

So people have gotten to know sharks through movies, TV, and other stories as mindless killing machines. But this just isn't true at all!

Sharks are actually very shy, and they can be picky eaters.

In conclusion, people have learned false information about sharks through movies, this leads to people not liking them, which then means people don't care about them.

This has led to many **myths** about sharks: things people believe that aren't true.



Tangent: ARTS AND CULTURE

Can you make of list of movies that show sharks as being scary monsters?



Can you come up with one myth about sharks that you may have heard?



MORE SHARK MYTHS!
[CLICK HERE](#) and [CLICK HERE](#) and [CLICK HERE](#) and [CLICK HERE](#)



I think it's time for a little research project.

Not too sure about this! What do I have to do?



You're going to pick one of the main threats to sharks. Maybe it's listed on page 17. (Don't forget that believing false information can also be a threat).

1. Get a big sheet of paper.
2. Include some shark facts.
3. Write the threat you chose.
4. Add some facts, pictures, drawings.
5. Include ways to help
6. Color and make it pretty!
7. BE CREATIVE!

Research Time!



The goal is to create a little presentation that you can share with your family and with me!

I'm sure you'll come up with some awesome work!



Woah. That was a lot of stuff. Take your time. I'm sure you're going to have some questions now. I think this would be a good time to write some down. Don't forget to plan your video call with me!

Questions and things I want to talk about



VOCABULARY

Conservation

Species

Threatened

Endangered

Apex Predator

Food Web

Ecosystem

Shark fin soup

Bycatch

Long-line fishing

Habitat

Vilified

Myth