

NEMO

Pre-visit Lessons 2020-2021

AQUATIC HABITATS

Rivers & Lakes



Coral Reefs





Open Ocean



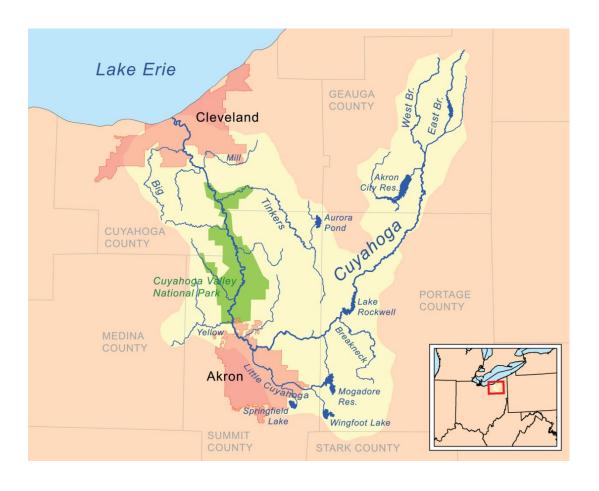
FRESHWATER HABITATS





Lakes & Rivers







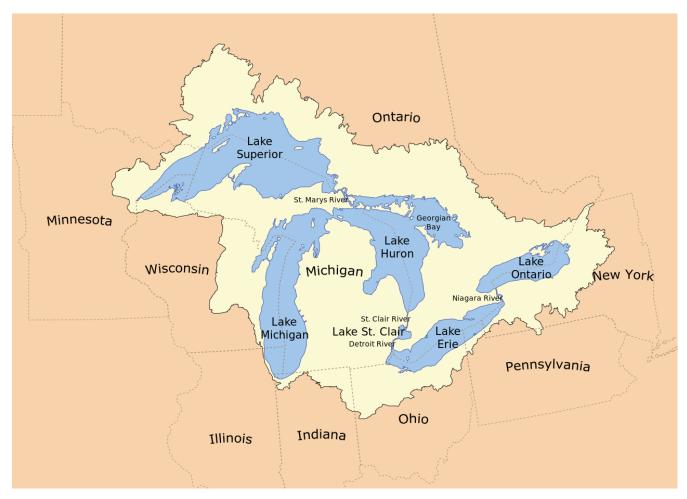
We have these habitats here in Cleveland!



There are river habitats in every state!

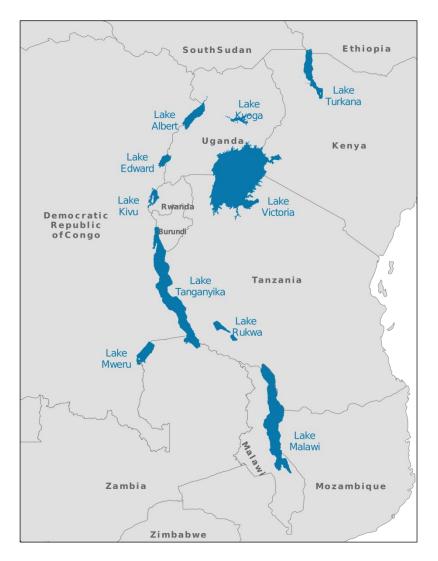


Freshwater Rivers & Lakes



The Great Lakes are the largest concentration of freshwater in the world!







The Great Lakes of Africa have the second largest concentration of freshwater

cleveland

Freshwater Rivers & Lakes



The Nile is the longest river in the world at 4,258 miles

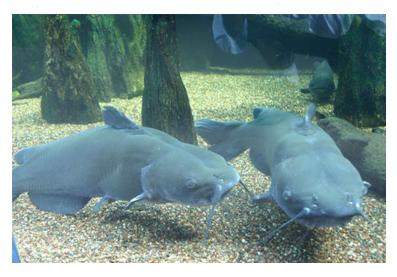


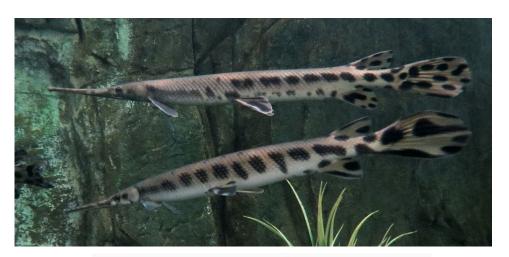
The Amazon is the second longest river in the world at 3,977 miles

The Amazon has the largest watershed of any river

cleveland









Fish in Ohio's Lakes & Rivers tend to be dull, dark colors to camouflage with plants and rocks

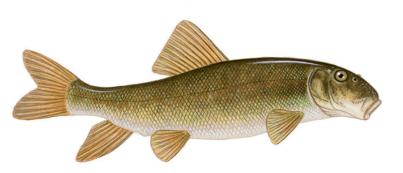












Fish in flowing rivers typically have streamlined bodies and wedge tails to swim in the current









Some fish are territorial and have bright color patterns as a warning sign.







Lakes & Rivers often have plants, rocks, and logs

During your NEMO program, we'll explore fish in Ohio Lakes & Rivers,

Asia & Indonesia, and Tropical Forest



Ohio Lakes & Rivers Gallery



Asia & Indonesia Gallery



During your NEMO program, we'll explore fish in Ohio Lakes & Rivers, Asia & Indonesia, and Tropical Forest



Tropical Forest Gallery

We will also explore our saltwater exhibits at the Aquarium. What saltwater habitats might we have?

SALTWATER HABITATS





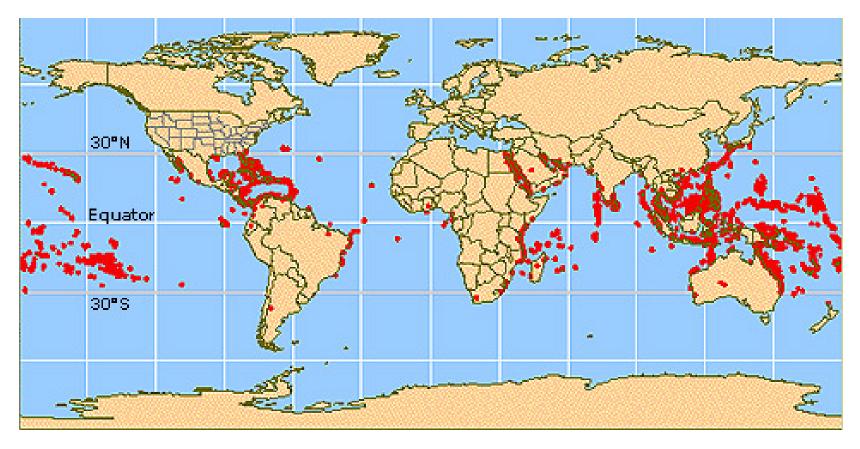
Coral Reefs

Open Ocean





Coral Reefs are saltwater habitats found in the ocean



Most coral reefs are found in warm water along the equator

Coral reefs contain 25% of all marine life Yet take up less than 1% of the ocean floor



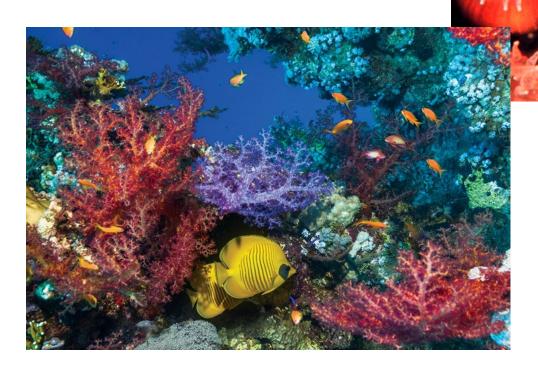
They are the 2nd most biodiverse habitat after the rainforest



Coral may look like plants, but are actually animals!



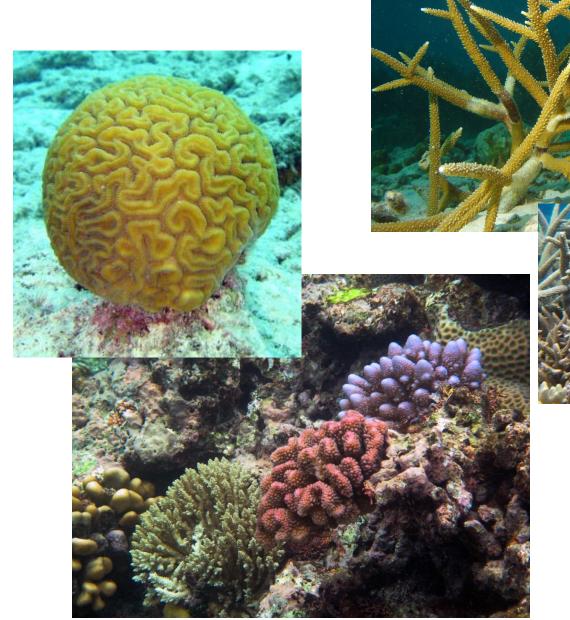
Coral feed with tentacles



And from algae that do photosynthesis in their cells

The color of coral comes from the algae





There are many shapes, sizes, and colors of coral.



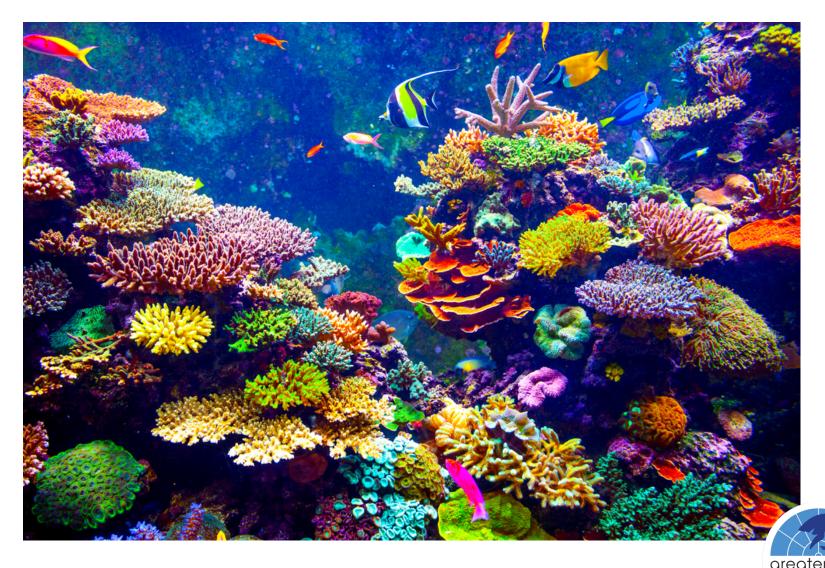






Coral reefs provide shelter for fish and other animals.





There are many places to hide and camouflage on a reef







Reef fish are often colorful to blend in with bright coral









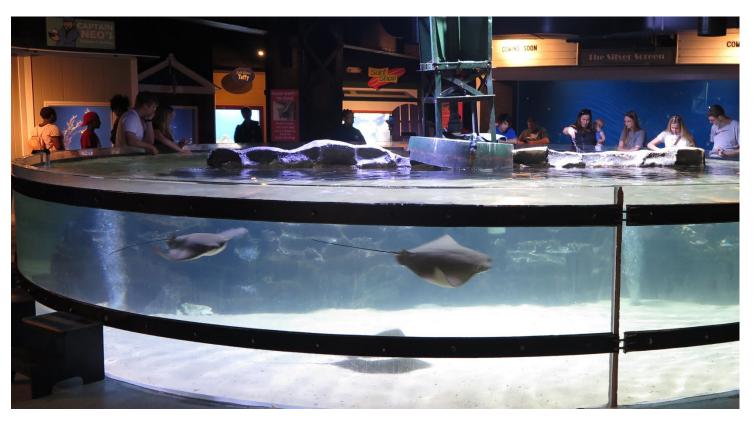
These fish have skinny body shapes and slow swimming tails to navigate through the reefs







During your NEMO program, we'll explore fish in our Coastal Boardwalk Gallery



We will see many coral reef animals here, before arriving at another saltwater gallery







The open ocean is HUGE and much is still unexplored



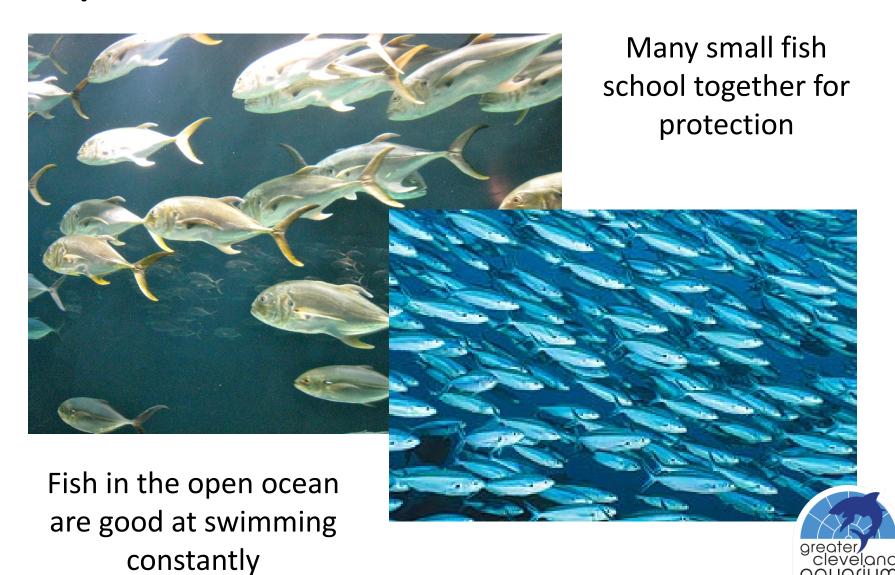
There is no place for fish to hide in the open ocean (no rocks, corals, or plants)



Open ocean fish camouflage using countershading

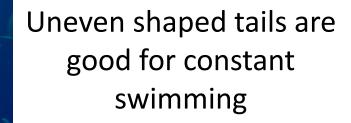
Or by blending in with their friends





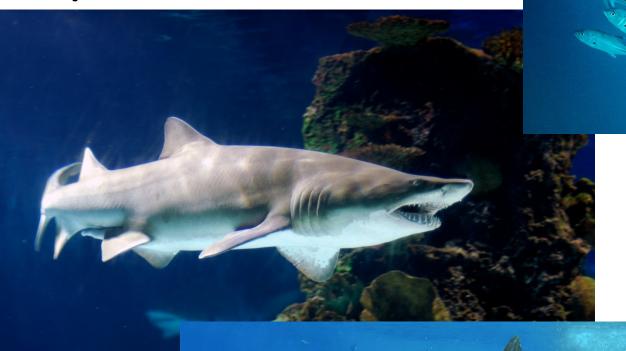
Forked tails, for fast swimming, are common in the open ocean











Many open ocean fish have rocket shaped bodies



During your NEMO program, we'll explore fish in our shark exhibit



Before we see all of these animals at the Aquarium, we should be adaptations experts. So let's continue practicing!



WHAT ADAPTATIONS DO YOU SEE?



ADAPTATION

A trait or characteristic that helps an organism survive.

Adaptations can be physical or behavioral



What adaptations do you see on the green moray eel?



HOW ARE ANIMALS ADAPTED TO THEIR HABITAT



Physical Adaptations:

- Body shape
- Tail shape
- Mouth shape
- Color pattern



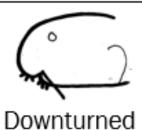


Channel Catfish - Mouth Shape



Mouth Shape











Archer Fish – Body Shape

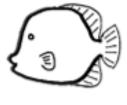




Body Shape



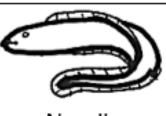
Rocket



Tall Pancake



Flat-bellied



Noodle



Snowflake Eel – Tail Shape



Tail Shape



Wedge



Forked



Rounded





Sand Tiger Shark – Color Pattern

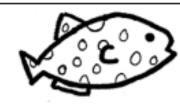


Color Pattern





Stripes



Spots



Mottled



West Bank of the Flats | 2000 Sycamore Street | Cleveland, OH 216.862.8803 | greaterclevelandaquarium.com

