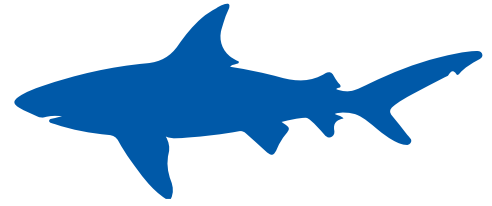


NAME: _____

INSTRUCTIONS: Visit our free online photo gallery at motemarinelab.photoshelter.com. Choose **GALLERIES > CULTIVATED GALLERIES**. Then browse or search on the collections to answer the questions below. Check out our Flipgrid topic to leave your answers: admin.flipgrid.com/discovery/partners/81



SHARK DAYS AT MOTE

REAL SHARKS, REAL SCIENCE

1 Name four kinds of live sharks on display at Mote.

(1) _____

(2) _____

(3) _____

(4) _____

2 Find a picture of a Mote shark scientist. Describe what they are doing in the picture.

3 Why do you think it is important to learn about sharks?



A shark at Mote Aquarium.



Shark scientist at Mote Marine Laboratory.



We train our sharks!



BONUS: Sharks, skates, rays, guitarfish and sawfish are in a group of fish called **Elasmobranchs** (*ih-las-muh-brangks*). Find another species of elasmobranch besides sharks that lives at Mote.



WHAT ARE SHARKS

Fish can be divided into two main groups. The first group are fish with skeletons made of **bone**. The second group are fish with skeletons made of **cartilage**. Sharks, skates, rays, guitarfish and sawfish all belong to this second group called **Elasmobranchs** (*ih-las-muh-brangks*).

ELASMOBRANCHS AT MOTE

There are currently **seven** species of shark on display at Mote Aquarium. Mote also displays skates, rays, and guitarfish.

Shark Zone (135,000 gallons, 511,031 L)

- **sandbar sharks** (*Carcharhinus plumbeus*)
- **blacknose sharks** (*Carcharhinus acronotus*)
- **nurse sharks** (*Ginglymostoma cirratum*).

Shark Tracker exhibit

- **bonnethead sharks** (*Sphyrna tiburo*)
- Two other species of Elasmobranchs, the **cownose rays** and **butterfly rays**.

Oh, Baby! exhibit

- **epaulette sharks** (*Hemiscyllium ocellatum*),
- **coral catsharks** (*Atelomycterus marmoratus*)
- **brownbanded bamboo sharks** (*Chiloscyllium punctatum*)

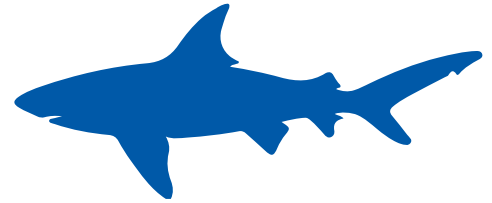
MOTE MARINE LAB STUDIES SHARKS

Mote has been obsessed with sharks since we opened our doors in 1955 and our founding Director, [Dr. Eugenie Clark](#), earned the nickname "The Shark Lady."

Today, our [Sharks and Rays Conservation Research Program](#) is dedicated to studying sharks and their relatives. There are over 1,000 kinds of these fish and many are threatened by humans. We study their populations, migrations, behavior and health.

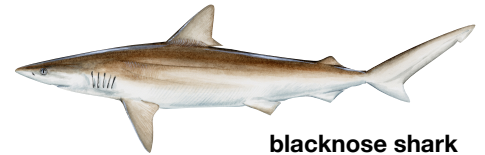


Find out more about sharks by visiting our website or connecting with us for a Virtual Field Trip: mote.org/seatrek

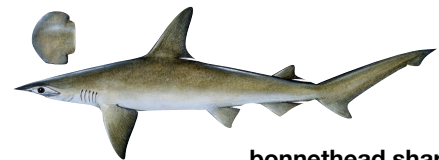


SHARK DAYS AT MOTE

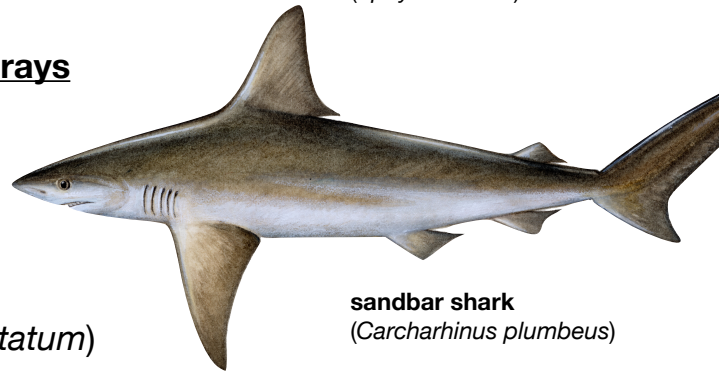
REAL SHARKS, REAL SCIENCE



blacknose shark
(*Carcharhinus acronotus*)



bonnethead shark
(*Sphyrna tiburo*)



sandbar shark
(*Carcharhinus plumbeus*)

Images: FWC/Diane Pebbles



Dr. Eugenie Clark
"The Shark Lady"



! NOTE TO TEACHERS & STUDENTS

You can view Mote’s Photoshelter galleries without a login account. However, to download and use all the features on their website, you must create a **free** account with PhotoShelter.

- motemarinelab.photoshelter.com/signup/signup/free

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- motemarinelab.photoshelter.com/contact

ANSWER KEY:

1) Name four kinds of live sharks on display at Mote.

Sandbar shark, blacknose shark, bonnethead shark, nurse shark, epaulette shark, coral cat shark, bamboo shark

2) Find a picture of a Mote shark scientist. Describe what they are doing in the picture.

Possible answers include: fishing, tagging, tracking, using a computer, measuring, on a boat

3) Why do you think it is important for to learn about sharks?

Possible answers include:

Sharks are an important part of ocean **ecosystems**.

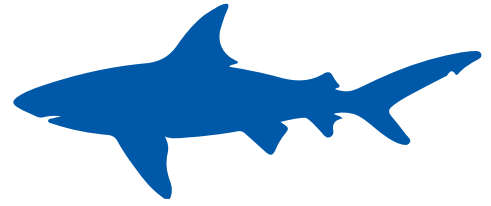
Sharks are apex predators at the top of most ocean **food chains/pyramids**.

Sharks may help us learn more about **human health**.

People enjoy **fishing** for sharks and **eating** sharks. Shark oil and skin are used in **commercial products** like cosmetics and industry.

4) Sharks are in a group of animals called Elasmobranchs (*ih-las-muh-brangks*). This groups also includes skates, rays, and sawfish. Find another kind of elasmobranch besides sharks that Mote scientist study.

Spotted eagle ray, clearnose skate, cownose ray, yellow stingray, southern stingray, Atlantic stingray, butterflyray



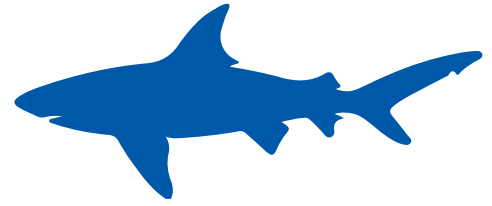
SHARK DAYS
AT MOTE

REAL SHARKS, REAL SCIENCE



STANDARDS

- Next Generation Science Standards
 - 6th - 8th Grades:
 - MS-LS2 Ecosystems: Interactions, Energy, and Dynamics
 - LS2.A: Interdependent Relationships in Ecosystems (MS-LS2-1), (MS-LS2-2)
 - LS2.C: Ecosystem Dynamics, Functioning, and Resilience (MS-LS2-4), (MS-LS2-5)
 - LS4.D: Biodiversity and Humans (secondary to MS-LS2-5)
 - MS-ESS3: Earth and Human Activity
 - ESS3.C: Human Impacts on Earth Systems (MS-ESS3-3), (MS-ESS3-4)
 - 9th - 12th Grades:
 - HS-LS2: Ecosystems: Interactions, Energy, and Dynamics
 - LS2.A: Interdependent Relationships in Ecosystems (HS-LS2-1), (HS-LS2-2)
 - LS2.C: Ecosystem Dynamics, Functioning, and Resilience (HS-LS2-2), (HS-LS2-6), (HS-LS2-7)
 - LS4.D: Biodiversity and Humans (HS-LS4-6), (secondary to HS-LS2-7)
 - ETS1.B: Developing Possible Solutions (secondary to HS-LS2-7)
 - HS-LS4: Biological Evolution: Unity and Diversity
 - LS4.C: Adaptation (HS-LS4-5), (HS-LS4-6), (HS-LS4-7)
 - LS4.D: Biodiversity and Humans (HS-LS4-6), (HS-LS4-7)
 - HS-ESS3: Earth and Human Activity
 - ESS3.C: Human Impacts on Earth Systems (HS-ESS3-3), (HS-ESS3-4)
- **UN Sustainable Development Goals**
 - #4: Quality Education - <https://www.un.org/sustainabledevelopment/education/>
 - #14: Life Below Water - <https://www.un.org/sustainabledevelopment/oceans/>
- **Ocean Literacy Principles**
 - OLP #5 The ocean supports a great diversity of life and ecosystems
 - OLP #6 The ocean and humans are inextricably interconnected



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