

- STEM Taught Camp - I'm a Scientist

Eugenie Clark: Day 1 Grades: TK-3

WELCOME

(5 min)



Introduction: Welcome your students to camp. Be friendly.

Remind students they have the opportunity to earn sand dollars when they complete a task, help another student, help set up or clean up, write in their journal, read a book, etc. Tally the amount of sand dollars that each student earned from helping and record it on the weekly payroll sheet.

Say, "Over the next month we will be learning about different scientists and the impact they have had on the world. Each week we will feature a different scientist. Let's see how interesting and fun science can be!"

STEM READERS THEATER

(30 min)

- Act out story: 15 min
- Discuss story: 5 min
- Activity: 30 min

Materials:

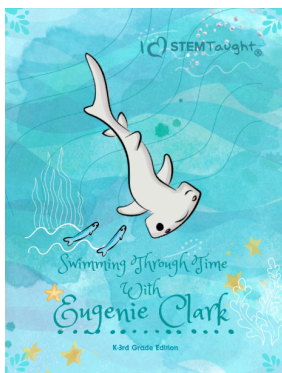
- Print one copy of "Day 1: Magnificent Sharks"
- Three pairs of scissors
- One roll of tape

READ SWIMMING THROUGH TIME WITH EUGENIE CLARK, DAY 1: MAGNIFICENT SHARKS

Prepare beforehand: Print out one copy of "Day 1: Magnificent Sharks" from the story. Print one coloring page for each student from the "Student Sheets" section. Gather scissors and tape.

What you'll do:

- 1. Setup storytelling props (10 min):** Call up volunteers to help with the readers theater. Ask students to cut out the story props found in the story document. Remember to tape the headband ends together to fit a child's head. Students that are not helping with the story setup can color their coloring pages while they wait.
2. Gather all students and have them sit to listen to the reader's theater. Ask students to leave their coloring pages behind.
3. Assign a volunteer actor to handle each prop for story time.
4. Read the story to your students. Guide your volunteer prop holders in following the acting instructions as you read.
5. Discuss the story with your students following the discussion prompts printed underneath the story text.



Eugenie Clark story.

STEM TIME

(30 min)

Materials:

- Big pack of chalk

WHALE SHARK CHALK ART

1. Go outside, measure out 50 feet and draw a life size Whale shark with chalk. Say: **"The largest shark is a whale shark. It is about 50 feet long. It's bigger than a school bus! Let's go draw one."** Kids may take their papers outside for reference and create shark art with chalk. They can also draw fish or other ocean related things.
2. Ask a few students to help clean up and you can reward them with sand dollar points.



ART

(60 min)

Materials:

- Black and white construction paper
- White crayons
- Blue and white tempera paint
- Glue



MAKE A WHALE SHARK

Set up:

Begin by passing out white paper and crayons to the kids. While they are coloring waves, thin some blue paint with a little water. Put the paint into dishes or paper plates for kids to share.

Instructions:

1. Use a white crayon on the white paper to color some waves. Make sure to press down firmly.
2. Paint over it with blue paint thinned with water.
3. While that paper is drying, students will cut out a black whale shark and paint white spots on the black shark. Use the eraser end of a pencil or the flat end of a paint brush to dab into paint and onto the shark.
4. Glue on wiggly eyes. Glue shark onto painted paper.

Alternately, kids can create their own underwater creations to put on the class collaborative mural.



STEM LAB

(60 min)

Materials:

- Corn starch
- Flour
- Elmer's glue
- Vinegar
- Lotion
- Baby oil

Air Dry Clay Recipe

- 1 cup cornstarch
- 1/2 cup flour
- 1/2 cup to 3/4 cup Elmer's glue
- 1 tablespoon white vinegar
- 1 teaspoon lotion
- 1 tablespoon baby oil

Air Dry Clay Recipe in milliliters

- 237 mL cornstarch
- 118 mL flour
- 118-177 mL Elmer's glue
- 15 mL white vinegar
- 5 mL lotion
- 15 mL baby oil

MAKE A MEGALODON SHARK TOOTH

Set up:

Decide how you are going to run this activity. One option is to have a table set up with all the ingredients and other supplies. Call 4 kids up at a time and have them measure out the ingredients into their bowls and start mixing. Then they can take their bowls back to the table to knead the mixture and make the shark teeth. You can have some extra corn starch on the tables in a bowl so it's available, if needed.

Instructions:

Say: "Today we will be making a shark tooth out of homemade clay!"

1. Show the kids pictures of shark teeth to give them an idea of how to form their shark tooth.
2. Have the students help make the clay. They will start by putting the flour and cornstarch in a bowl, add the vinegar, lotion, and baby oil. Then, gradually add the glue and knead. Do not add all the glue at once, add little by little. Feel free to add more cornstarch or flour until your dough has reached the pliable consistency needed to mold your craft. It has to be soft as play dough, but it will dry in a few days and doesn't crack!
3. Kids can mold the clay with their hands till they get the perfect shape for their shark teeth. Think about options to make the top of the tooth textured; possibly toothbrush bristles poked into the clay!
4. Optional: String it on a thin cord and add beads, if desired, for a necklace.
5. Leave the teeth for a few days as they dry. Once they are dry the students can paint them if they'd like and take them home.

You may use your Kea graduated cylinders (milliliters) to help measure.



STEM GAMES

(60 min)

Materials:

- Board games
- Legos
- Blocks
- Coloring supplies
- Books
- Stacking cups

Materials:

- Music



KIDS CHOICE

Allow students time to connect with each other through a fun game or let them choose to read. If the students have not had time to draw/write in their journal, have them take some time to do so now.

Kids' Choice:

Choose between options that the teachers have set out: Board games, building with Legos, blocks, or other things, reading, coloring/drawing (include ocean related coloring pages), cup stacking.

Sharks and Islands:

1. Spread the fabric pieces or towels around the room. These will be the islands. Players will be walking around or dancing while the music plays.
2. When the music stops everyone has to hurry onto an island (the sharks are coming!). If they take too long or can't fit on an island they are out. After playing a couple times, remove an island. Now when the music stops there will be less room.
3. Kids can work together to fit more people on the existing islands. No pushing! If they aren't on an island they are out. When the music resumes, remove another island.
4. Continue playing till only one or two players remain. They are the winners.