



-STEMTaught Camp- I'm a Scientist

Eugenie Clark: Day 1

Grades: 4-8

WELCOME

(5 min)



Introduction: Welcome your students to camp. Be friendly. 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!"

Remind students that they can 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 pay role sheet.

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



Eugenie Clark story.

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. Set up 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.

STEM TIME

(30 min)

Materials:

- 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 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.

Test tubes, graduated cylinders or measuring cups work to help measure.



Note: Students will be using air-dry clay for the pasta shell sea snail activity later in the week. If you choose, you can make extra clay and store it in resealable bags to use later in the week.

STEM GAMES

(60 min)

Materials:

- Cones
- Jump ropes



Relay Race Instructions:

1. Separate the kids into teams of about 5 players each.
2. Place cones at the starting point and the endpoint in front of each team. 3. About $\frac{1}{2}$ way through the course, place 2 jump ropes parallel to each other for the players to jump over. This will represent the river.
3. On "GO," the 1st person on each team will run, jump the river, then run to the end cone, tag it, and run back and tag the next player on their team.
4. Then, that player runs the course and returns to tag the 3rd player.
5. Play continues till all players have run. The team that finishes 1st is the winner.