

-STEMTaught Camp- I'm a Scientist

Eugenie Clark: Day 5 Grades: 4-8

WELCOME

(5 min)

Introduction:

Say: "Today we are going to have a beach party to celebrate all that we have learned!"



Tell students that today is Pay Day! All of their hard work to earn sand dollars will be added up and passed out in their pay day envelop. They can then use the money at the beach party.

STEM READERS THEATER

(30 min)

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

Materials:

- Print one copy of "Day 5: Diving in at 92!"
- Three pairs of scissors
- One roll of tape

READ SWIMMING THROUGH TIME WITH EUGENIE CLARK, DAY 5: DIVING IN AT 92

Prepare beforehand: Print out one copy of "Day 5: Diving in at 92!" 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.

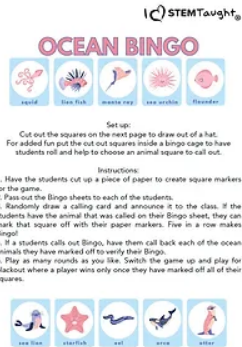


ACTIVITY

(30 min)

Materials:

- Bingo sheets
- Calling card
- Paper
- Scissors



PLAY OCEAN BINGO!

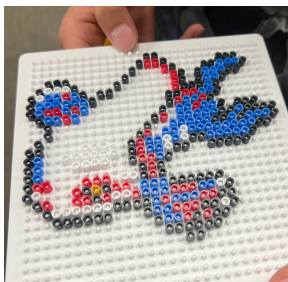
1. Cut out the ocean animal bingo calling cards. Have the students cut up a piece of paper to create markers for the game.
2. Pass out the bingo sheets to each of the students.
3. Randomly draw a calling card and announce it to the class. If the students have the animal that was called on their bingo sheet, they can mark that square off with their paper markers. Five in a row makes bingo!
4. If a student calls out bingo, have them call back each of the ocean animals they have marked off to verify their bingo.
5. Play as many rounds as you like. Switch the game up and play for blackout where a player wins only once they have marked off all of their squares.

STEM ART

(60 min)

Materials:

- Paper plates for fuse beads
- Fuse beads
- Tweezers from Kea
- Iron (only for leaders)
- Bead idea sheets



MAKE A SPECIAL MOMENTO

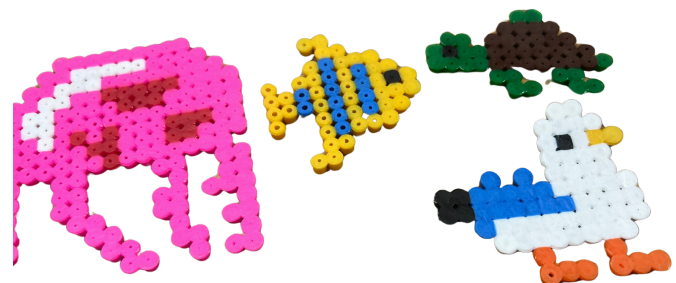
Set up:

Set up a table with paper plates with fuse beads, tweezers from Kea, fuse bead boards for building, and student fuse bead idea sheets.

Instructions:

Say: "Scientists like Genie have to learn how to sort and organize a lot of data! You can start getting good at this skill by sorting and organizing the colors you will need to make a special memento. You can pick your favorite sea animal and make a model of it using these beads. You can copy the pattern on the sheet or make your own. You can also turn it into a necklace by leaving a bead at the top to put string through!"

1. Students will use their sorting and pattern skills to build a sea creature using the beads onto their peg board.
2. They can build multiple creations on one peg board.
3. The leader will be the only one using the hot iron to fuse the students creations together. **Make sure no other students get near the iron!**



MICROSCOPES

(60 min)

Materials:

- Microscopes
- Coral samples
- Petri dishes



OBSERVE CORAL SAMPLES

Instructions:

Say: "Today we get to pay special attention to the shapes we see with a piece of coral you can hold in your hand."

1. Pass out the coral samples and petri dishes to set the coral in. Remind students these are very special and have been gathered from a real beach, so they need to be returned at the end of class.
2. Before the students view the coral under the microscope, allow them time to observe the coral freely, feel the texture, and write about and draw what they see.

3. Students observe their coral under Meeka microscope; they can go around the room and look at other students coral samples and compare and contrast them with their own. Students should draw detailed pictures of what they are seeing just like Genie Clark..

4. Have each student focus on making a detailed drawing. Ask questions to help them continue their investigation. Ask: **What shapes do you see? What do you notice up close that you didn't notice when you first held your piece of coral? Now that you've looked closer, do you have new questions about the coral? Write them down!**

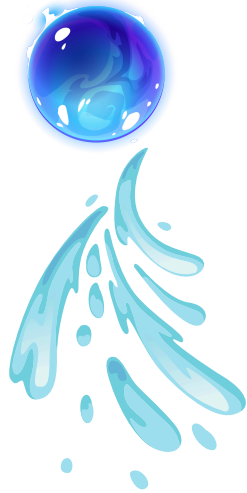
Explain: You are seeing the homes that a tiny little coral polyp build for themselves. They are built like little apartments hooked together until they form giant structures. Coral polyps look like little upside down jellyfish. Each little hole that you are looking at in your samples was home to one of these little polyps.

5. Watch the student movie on coral reefs on the Day 5 webpage.



BEACH PARTY!

(60-120 min)



Materials:

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



Instructions:

Play music, Hawaiian or anything appropriate. Have some group games, led by leaders, and some things set out for the kids to do. Have a snack table set up.

Set out:

Bubbles, chalk, hula hoops, ocean themed water bins with toys.

Food: Put out parent sign up list for food donations.

Popsicles/ice cream (enough for everyone)

Fruit- watermelon, pineapple, grapes, mandarins

Veggies- carrots, cucumbers, olives, ranch dressing

Crackers

Water Games:

See Summer Camp Water Games PDF for instructions and materials.

Drip, Drip Drench

Water Balloon Toss

Over-Under Bucket Relay

Beach Ball Relay

OPTIONAL: 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 Instructions:

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.