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San Bernardino County

Superintendent of Schools

Transforming lives through education



RIVERSIDE COUNTY
OFFICE OF EDUCATION
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County Superintendent of Schools

Friday, July

6

11:30am

This series showcases bright, curious real girls putting science and engineering to work as they answer questions and make unexpected discoveries in the world around them. In this episode, it's anchors aweigh! Junior lifeguard Chloe and her friends set sail on a SoCal citizen science cruise, working with marine scientists to collect data on the health of the Pacific Ocean and create a splashy conservation video for beach visitors.

SciGirls "Terrific Pacific"

4th – 8th grades.

After watching this episode, choose from the following questions and/or tasks to extend your learning

Question Box 1

Observation:

- The girls set sail on a science cruise, what is the purpose of this cruise?
- What observations do the girls make of the ocean floor?
- What animals do the girls discover that live there?
- What instruments do they study to make some of their observations?

Data Collection:

- Where do the girls go to collect data? How do they get there?
- What two data points do the girls collect?

Mentor Moment:

- What do the girls learn about the structure of giant kelp forest?
- How does the mentor help the girls?

Analyze:

- What data do the girls analyze? What are their findings and conclusions?

Share:

- How do the girls share what they learned to the public?
- Why do they think it is important to share this information with others?

Question Box 2

- Why do you think it is important to care about the oceans?
- What are some things you can do to show you care about the ocean habitat?
- What was most challenging or least interesting about this program?
- What about the show stood out to you?
- What did you find most interesting and why?
- How much did you know about the subject before we started?
- How do you feel about this program? Why?
- What parts of it do you particularly like? Dislike? Why?
- What did you enjoy about this program?

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Box 3 (Tasks)

- Click [Terrific Pacific](#). Download “All Tangled Up” and complete.
- In what ways did the SciGirls use matter and energy to warm up the shack?
- Define “insulation” as you were talking to a person one grade lower than you.
- If the temperature increases by 5 degrees in 45 minutes, how long will it take for the ice shanty if it was at 20 degrees to get to 40 degrees? 50 degrees? Explain how you got your answers.

Box 4 (Enrichment)

Visit [Multimedia | Bring the Aquarium to You](#)

Find Video Audio and More!

- [Watch](#) video interviews with guest speakers
- [Listen](#) to audio files
- [Learn](#) about and see pictures of our animals

[GO To the Aquarium Academy](#)

- Draw a model of how bubble wrap insulates.
- Define “passive solar heat.”

Box 5 (Extend/Real-Life)

- Floating Forests - Scientists are trying to understand how kelp forests grow and change. Identify kelp forests using images taken from space.
- Find and Classify Floating Forest at [Floating Forests — Zooniverse](#).....click on “learn more” and “getting started”.
- Research and describe ways that modern homes use insulation and passive solar heat to warm their homes.