



BRINE SHRIMP: HYPERHALINE HABITAT

(PART 1)

CREATE A SALTWATER ENVIRONMENT FOR BRINE SHRIMP

INTRODUCTION

5 min

"How inappropriate to call this planet Earth, when clearly it is Ocean."

– Arthur C. Clarke

MOVIE TIME

5 min



Watch the movie to learn about brine shrimp.

You are welcome to read students the optional additional information on brine shrimp during reading time or near the end of the lab.

STEM TIME

60-90 min

Create a saltwater environment for brine shrimp

Materials:

- Salt
- Water
- Tedros test tubes
- Pippi pipettes
- Scoopy spoons
- Microscopes
- Pitcher/other container
- Petri dishes
- Tobey tweezers

1. Watch the teacher prep videos before conducting the lab.

2. Show students the in-class video.

3. Students use Pippi pipette to fill their Tedros test tubes with water up to 40 ml. Talk about how ml is one unit of measurement that is good when measuring small amounts of liquids.

4. Students use Scoopy spoon to add one flat spoonful of salt to their water. Students screw the lid onto Tedros test tube and shake (Let students jump and watch until all their salt dissolves.)

5. Dump the water from the test tube into Mo the pitcher, a large clear glass jar, or other large clear plastic container (clean pretzel and snack containers work well). Do not remove the salt from students' tables.

6. Let students take a tiny sample of salt using the tweezers. Have them carefully spread the salt in the Petri dish and ask them to make sure the crystals aren't on top of one another.

7. Students take a closer look at salt under the microscope. Ask what the salt looks like without the microscope. Can they count the grains easily or observe details with the unaided eye?

8. Let students look at salt crystals under the microscope.

9. Have students draw what they see in detail.



EXTENSION ACTIVITY

Read the story to learn about brine shrimp.