



Khaled bin Sultan
Living Oceans
Foundation

STANDARDS

- **CCSS:** RST.9-10.1, 2, 3, 4, 5, 7, 8, 10; RST.11-12.1, 2, 3, 4, 8, 10; SL.9-10.1, 6; SL.11-12.1, 6; HSN.Q.A.1; HSA.CED.A.1, 4
- **NGSS:** ESS 2.A, ESS 2.C, ESS 2.D, HS-LS2-2, HS-LS2-6
- **OLP:** 1.B.1, 1.C.1, 1.C.7, 1.C.8, 1.C.9, 1.C.11

ONLINE CONTENTS

- [Distribution Quiz](#)
- [Where Are Coral Reefs Found? Video](#) Although corals are found throughout the planet, most reef-building corals are found in the tropics and subtropics where thousands of animals make these reefs their home.

DISTRIBUTION

This lesson is a part of the *Distribution* unit, which explains the two major drivers of coral distribution: salinity and temperature. Below is a summary of what is included in the entire unit.

UNIT CONTENTS

A. [Background Information](#)

- Where are Corals Found?
- What is a Current?
- What is Density?
- Salinity, Temperature, and Ocean Circulation

B. Lessons

[Watch it! Where are Corals Found?](#)

- A worksheet to accompany the [Where are Corals Found?](#) video

[Density 101](#)

- A lab to calculate and compare densities of liquids

[Inquiring about Density 1](#)

- A lab to create a procedure to determine relative densities

[Inquiring about Density 2](#)

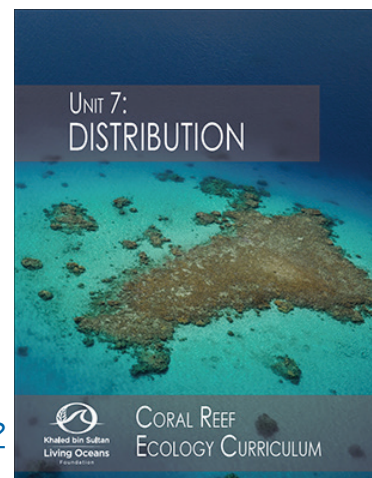
- A lab to create a procedure to determine actual densities

[Go With the Flow](#)

- A worksheet to accompany a teacher demonstration on how salinity and temperature affect water density

[Read it! Galapagos Ocean Currents](#)

- A worksheet to accompany the [Galapagos Ocean Currents](#) field blog





LESSON 2A

INQUIRING ABOUT DENSITY 1

OBJECTIVE: There are four colored salt water solutions. What are some ways that you can measure the density of these solutions?

BRAINSTORMING IDEAS:

OBJECTIVE: How can you do this without a balance or a scale?

BRAINSTORMING IDEAS:

METHODOLOGY:

Teacher Approval: _____



RESULTS: Once you have been given approval, test your methods and fill in the results in the table below.

LIQUID	OBSERVATIONS	INFERENCES
Unknown 1		
Unknown 2		
Unknown 3		
Unknown 4		

CONCLUSIONS: Write you conclusions based on your results in the space below.