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

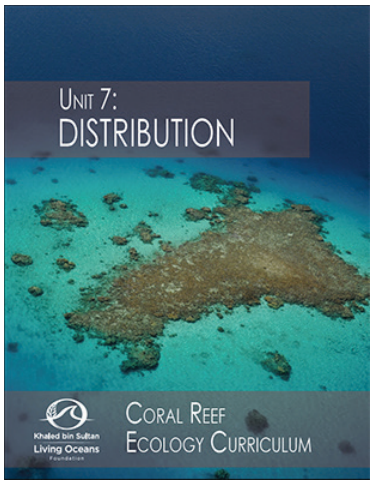
ONLINE CONTENTS

- 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

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READ IT! GALAPAGOS OCEAN CURRENTS

INSTRUCTIONS:

1. Read *Galapagos Ocean Currents*, a blog from our Galapagos Islands mission (*http://www.lof.org/galapagos-currents/*).
2. While reading the blog, take notes and connect it to your prior learning. Note things that you agree or disagree with. There is a space, below, for this.
3. Next, document what you like and dislike about this blog in the space below. Be sure to pay attention to things like style and tone, along with the content and visual design. Be sure to *explain* what it is that you do or do not like about each element.
4. Answer the questions.

NOTES

LIKES

DISLIKES

1. What is the central idea of this blog?

2. Describe the five currents that join at the Galapagos Islands. Be sure to look at the map along with the text of the blog.

3. Why isn't the Galapagos hot like other places along the equator? Cite specific textual evidence to support this.

4. Did the author fully support his claim? Explain why you think this.

5. *Oceanographically*, *current*, and *garúa* are specific vocabulary for the topic of this blog. Define them below.

6. Write a sentence of your own creation that connects the three words from #5, above.

7. Is this blog a reliable source for scientific information? Why or why not?

8. Do you notice any bias in this writing? If so, what?

9. Describe three things that you learned while reading this blog entry (they do not have to relate to the central idea).

10. Construct a comment to post in response to this blog. Remember that a good comment makes connections, asks a question, or gives an opinion in a respectful manner. You might want to quote the part of the blog that you are specifically referring to. Don't be afraid to disagree with another writer, but be sure to explain yourself and remain polite.