Khaled bin Sultan Living Oceans Foundation

STANDARDS

- **CCSS**: RST.9-10.1, 3, 4, 5, 7, 8, 9, 10; RST.11-12.1, 3, 4, 8, 9, 10; W.9-10.4, 7, 8; W.11-12.4, 7, 8; SL.9-10.1, 3, 6; SL.11-12.1, 3, 6
- **NGSS**: ESS 2.D, HS-LS2-6
- **OLP**: 1.B, 1.B.3, 5.A.2, 5.B.1, 5.B.2, 5.B.5, 5.C.25, 5.C.33, 5.C.34

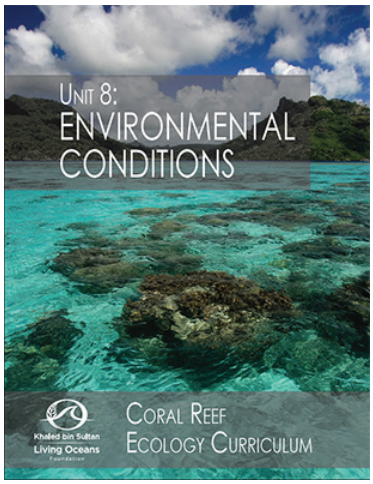
ONLINE CONTENTS

- Environmental Conditions Quiz

ENVIRONMENTAL CONDITIONS

This lesson is a part of the *Environmental Conditions* unit, which explains the abiotic factors that corals need to thrive. Below is a summary of what is included in the entire unit.

UNIT CONTENTS



A. Background Information
   - Environmental Conditions
   - Abiotic Factors

B. Lessons

Conditional Corals
- A lab to evaluate the water quality at potential sites for a new coral reef colony

Deep Conditions
- A lesson to research deep-water corals and compare them to shallow-water corals

Read it! Shivering for Science
- A worksheet to accompany the *Shivering for Science* field blog

 Name: _____ Date: _____

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READ IT!

Shivering for Science

INSTRUCTIONS:

1. Read *Shivering for Science*, a blog from our New Caledonia mission (*http://www.lof.org/shivering-for-science/*)
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. How does the first paragraph tie into the rest of the blog (what is its purpose)? Do you think it was a good idea for the author to include this? Why or why not?

2. How does sea surface temperature influence coral reefs? Cite specific textual evidence to support this.

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

4. *Spur and groove*, *atoll*, and *thermal* are specific vocabulary for the topic of this blog. Define them below.

5. Write a sentence of your own creation that connects the three words from #4, above.

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

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

8. Why does a 73°F air temperature feel so much warmer than a 73°F water temperature? Compare and contrast the information about diving in cold water in this blog to that you find on another website or with an experiment you have done in class. Be sure to cite the second source of information in your answer.

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.