Khaled bin Sultan Living Oceans Foundation

STANDARDS

- **CCSS**: RST.9-10.1, 2, 4, 5, 7, 8, 10; RST.11-12.1, 2, 4, 10; SL.6.1-8.1; SL.6.5-8.5
- **NGSS**: MS-LS2-3, MS-LS2-4
- **OLP**: (grades 6-8) 5.A.1, 5.A.3, 5.A.4, 5.A.6, 5.A.16, 5.A.21, 6.A.5-6.A.7, 6.D

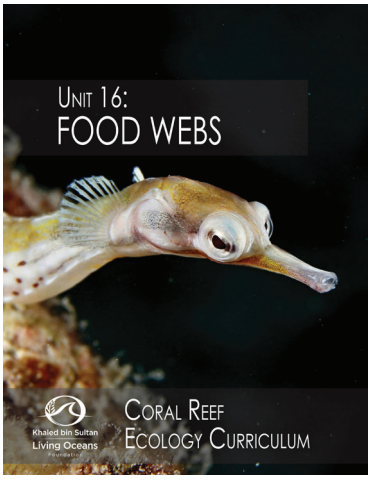
ONLINE CONTENTS

- Food Web Quiz
- *Coral Reefs: Unraveling the Web* Coral reefs are an ecosystem that supports millions of different creatures. A coral reef is so complex, it's better to think of it as a food web - a network of food chains - that tells a story about the interdependence of all the animals and plants that live in the reef.

FOOD WEB

This lesson is a part of the *Food Web* unit, which explains how matter is recycled and energy is transferred in the biotic (living) parts of a coral reef ecosystem. Below is a summary of what is included in the entire unit.

UNIT CONTENTS



A. Background Information
   - Earth's System
   - Matter
   - Energy
   - Feeding Strategies
   - Food Chain
   - Food Web
   - Ecological Pyramids
   - Energy Pyramid & 10% Rule

B. Lessons

Watch It! Unraveling the Web
- A worksheet to accompany the *Coral Reefs: Unraveling the Web* video

Stringing it Together
- An activity that models food chains and food webs in the coral reef ecosystem to aid in understanding how matter is recycled and energy flows through it

Read it! Sharks
- A worksheet to accompany the *Sharks!* field blog

Read it! Faces & Functions of Algae
- A worksheet to accompany the *The Faces and Functions of Algae on the Reef* field blog

Name: _____ Date: _____

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READ IT!

Faces & Functions Algae

INSTRUCTIONS:

1. Read *The Faces and Functions of Algae on the Reef*, a blog from our Palau mission (*https://bit.ly/functionsalgae*).
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. What is algae's trophic level? How are algae beneficial to the coral reef food web? Cite specific textual evidence to support this.

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

4. *Algae*, *competition*, and *eutrophication* 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. Read *Alices' Fishes*, a blog from our Columbia mission (*https://www.lof.org/alices-fishes/).* Compare and contrast the information about the role of algae on coral reefs (found in this blog) to that from *Alice's Fishes.* Be sure to cite the other sources of information in your answer.

9. Describe three things that you learned while reading this blog (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.