



Deep Cocos • Study Guide

In this exciting Blue World adventure, Jonathan hitches a ride on a submarine down to 1,000 feet at Cocos Island, Costa Rica, where he finds strange fish and even sharks!

Objectives

1. Introduces viewers to deep sea exploration.
2. Illustrates a few deep sea animals and their adaptations.
3. Shows the diversity of life in deep water.

Questions for before watching the program

1. What is submarine? How does it allow people to dive deeper than on scuba?
2. How far does light penetrate into the ocean?
3. How do animals exist in the deep ocean without light?
4. Where is Cocos Island? Can you find it on a map? What makes it a good place for deep diving in a sub?
5. Are there sharks down deep?

Discussion for after watching the program

1. At 300 feet, was there light? How would you describe the light?
2. At 1000 feet how would you describe the light?
3. If no plants can live at 1,000 feet because there is no light, how do you think animals down there can find food with no primary production? (The web can help here)
4. Often deep water animals like the jellynose fish have large eyes. Why?
5. What do you think the Prickly shark at 1,000 feet might be feeding on?
6. Other than the animals we saw on the dive, what other animals might be found down deep?
7. *Internet research:* the atmospheric pressure at sea level is 14.7 psi. What is it at 200 feet, considered the safe limit for scuba divers? What is it at 1,000 feet?