

OCEAN ZONES

/ LESSON OVERVIEW

Objectives

The students will:

- the different divisions of the intertidal zone;
- the different divisions of the continental shelf;
- the different divisions of the pelagic zones;
- how temperature decreases with depth;
- how pressure increases with depth;
- how light intensity changes with depth;
- what types of shark are found in each depth zone;
- how the morphology and adaptations of sharks differ depending on what zone they live in.

Lesson Summary

Part 1. Intertidal Zone (5 – 10 minutes)

Students learn the different divisions and characteristics of the intertidal zone.

Part 2. Continental Shelf, Slope, and Rise (5 minutes)

Students learn the different divisions and characteristics of the continental shelf, slope, and rise.

Part 3. Pelagic Zones (20 – 30 minutes)

Students learn the different divisions and characteristics of the pelagic zones.

Part 4. What Changes with Ocean Depth (5 – 10 minutes)

Students discover how light and pressure changes with depth.

Part 5. Sharks in Different Zones

Learn what species of sharks are found in each ocean zone. What special adaptations do they have to help them survive in that zone?

Activity 1. Oral Presentation (1 week/take-home)

Using the provided questions as guidance, students perform research on an ocean zone then create a presentation.

Activity 2. Ocean Zones Card Game (45 – 60 minutes)

This interactive game will test the students' knowledge about each ocean zone. Playing cards are included.

Activity 3. Design Your Own Shark! (30 – 45 minutes or take-home)

Students imagine they are scientists who have just discovered a new species of shark!