

## Unit 10 Objectives

### Competency Goal 4:

The learner will build an understanding of the hydrosphere and its interactions and influences on the lithosphere, the atmosphere, and environmental quality.

### Unit 10 Objectives:

- I can explain the processes that generate ocean currents, tides, and waves.
- I can explain how the Coriolis Effect influences the ocean.
- I can explain the cause of upwelling and its influence on marine life.
- I can describe the processes that produce the various types of shorelines and their landforms.
- I can describe the effects of human efforts to stabilize the shoreline.
- I can describe the resources extracted from the oceans.
- I can describe ocean water composition.
- I can describe seafloor topography.

### Unit 10 Essential Questions

1. List and describe two mechanisms that generate ocean currents.
2. What is the Coriolis Effect and how does it influence ocean currents?
3. What is upwelling and how does it affect marine organisms?
4. Explain the forces that produce tides.
5. Describe a spring tide.
6. Draw and label the 4 parts of a wave.
7. How does energy move through a wave?
8. List and describe 2 erosional features found along the shoreline.
9. List and describe 2 depositional features found along the shoreline.
10. List 3 structures meant to stabilize the shoreline.
11. List 2 ocean resources used for energy production.
12. What is salinity? What causes it to increase and decrease?
13. What is density?
14. What are the three parts of the continental margin?
15. What are seamounts and guyots?
16. What is a midocean ridge and how does it form?
17. What is a submarine canyon and how does it form?