

**Intermediate Science 8**  
**Unit 1: Water Systems on Earth's Surface**  
**Chapter 2 and 3 Outline**



Know the following terms

Pangea	Panthalassa	Ocean Current
Continental Shelf	Sonar	Surface Current
Continental Slope	Satellite Mapping	Deep Sea Current
Abyssal Plain	Submersibles	Coriolis Effect
mid-Atlantic ridge	Deep Sea Cameras and Videos	Thermocline
Density Currents	Upwellings	Waves
Swells	Breakers	Tsunamis
Headlands	Bays	Erosion
Tides	Spring Tides	Neap Tides
Wavelength	Wave height	Wave Frequency
Crest	Trough	

Important concepts to know:

1. How did the ocean Basins form?
2. Where did water come from?
3. Describe the layout and structure of the ocean floor. Include the continental shelf, slope, abyssal plain, and mid-Atlantic ridge.
4. How can we explore the ocean floors? Describe four methods to do this.
5. What are ocean currents? Contrast the two types of ocean currents. Explain what causes each type, and where they are located.
6. List the two major currents that intersect near Newfoundland. What affect do these currents have on the climate?
7. Explain the Coriolis effect.
8. Draw and fully label a wave
9. How does a breaker form?
10. What is a tsunami and how are they formed?
11. Describe the difference between a headland and a bay. How do they erode differently?
12. What are four factors that affect how land erodes?

Know the following textbook questions:

Textbook Page #	Question
Page 45	#1, #2, #3, #4
Page 49	#1, #2, #3, #4
Page 53	#1, #2, #3, #4, #5, #6, #7, #8, #9, #10
Page 58	#1, #2, #3, #4, #5
Page 61	#1, #2, #3, #4, #5
Page 63	#1, #2, #3 -#1, #2, #3, #4, #5, #6, #7, #8, #9, #10
Page 68	#1, #2, #3, #4, #5
Page 71	#1, #2, #3, #4
Page 77	#1, #2, #3 -#1, #2, #3, #4, #5, #6, #7, #9, #10
Page 78-79	#2, #3 -#1, #2, #3, #4, #5, #6, #7, #10, #11, #12, #13, #14, #17, #18, #19 #20, #21, #24, #28, #29

The following activities were completed:

Activity	Textbook Page
How ocean Basins Become Bigger	Page 41
Undersea Adventure	Handout

