Fresh and Saltwater Systems Summary & Review

What are the characteristics of water systems? How do water systems interact with the atmosphere and with Earth? How do water systems interact with human activities?	
Key Concepts Science Focus 8 ((Unit At A Glance. 474)	Guiding Questions and Activities to Help you Study
Topic 1 A World of Water	- How is water recycled on Earth? (p.368) - What are vital environmental concerns regarding the quantity and quality of water on the Earth? (p. 366) (p. 374) - Describe the distribution of water on the Earth. (p. 372-373)
Topic 2 Earth's Frozen Water	- How does *glacial erosion* and *glacial deposition* affect the face of the Earth? (p. 380-382) - Describe the *natural freshwater storehouses*, such as *Icefields, glaciers and snow packs*. (p.375-379) - What clues to the past can *ancient ice* reveal? (p.384-385) - How does *global warming* and *natural disasters* affect our water supply? (p.386-387)
Topic 3 Fresh Water Systems	- In what forms does fresh water exist on the Earth? (p.390-391) - How does land use affect run-off and the health of a watershed? (p.392-394) - Describe how the *rate of flow of a stream* can affect erosion and sedimentation. (p.396-397) - How do scientists determine the impacts of pollutants on the aquatic environment? (p.400-401) - What is causing *aquifer depletion*? (p.403-405) - How can groundwater contamination magnify environmental contaminants? (p.406-407)
Topic 4 The Oceans	- How do the Oceans get *salty*? (p. 411) - What does the Ocean floor appear like and how was it formed? (p. 413-415) - Describe the effect of *Ocean waves* on shorelines and the creation of beaches. (p.417-422) - What causes *Tides*? (p. 423-425) - How do Ocean currents affect climate and aquatic life? (p. 426-429)
Topic 5 Living In Water	- Describe the diversity of freshwater and saltwater organisms. (p.432-433) - What adaptations do plants and animals develop to enable them to survive in aquatic environments? (p.434-444) - Describe the interactions (food chains and food webs) among aquatic organisms. (p.444-445) - Describe how *biomagnification* can affect organisms in a food chain. (p.446-447)
Topic 6 Water Quality and Water Management	- What scientific tests are used to determine the properties and quality of a water supply? (p.448-450) (p.453-454) - How do people and water interact negatively? (p.451-452) - Describe how biological organisms can be used as indicators of water quality. (p.455-459) - What is needed in order to maintain a safe, reliable water supply? (p.460-463) - How this be achieved while balancing the needs of people, industries, agriculture and wildlife? (p.465-468)
Design a Concept Map linking the ideas introduced and reinforced in this Unit on **Fresh and Saltwater Systems**	
Try some of the **Practice Quizzes** to see how much you have recalled from this Unit	