

## Fresh and Saltwater Systems Summary & Review

|  |  |
|--|--|
| <p>What are the characteristics of water systems?<br/>         How do water systems interact with the atmosphere and with Earth?<br/>         How do water systems interact with human activities?</p> |  |
| <p><b>Key Concepts</b><br/>         Science Focus 8<br/>         ((Unit At A Glance. 474)</p>  | <p style="color: purple;">Guiding Questions and Activities to Help you Study</p>   |
| <p><b>Topic 1</b><br/>         A World of Water</p>  | <ul style="list-style-type: none"> <li>- How is water recycled on Earth? (p.368)</li> <li>- What are vital environmental concerns regarding the quantity and quality of water on the Earth? (p. 366) (p. 374)</li> <li>- Describe the distribution of water on the Earth. (p. 372-373)</li> </ul>  |
| <p><b>Topic 2</b><br/>         Earth's Frozen Water</p>  | <ul style="list-style-type: none"> <li>- How does <i>glacial erosion</i> and <i>glacial deposition</i> affect the face of the Earth? (p. 380-382)</li> <li>- Describe the <i>natural freshwater storehouses</i>, such as <i>Icefields, glaciers and snow packs</i>. (p.375-379)</li> <li>- What clues to the past can <i>ancient ice</i> reveal? (p.384-385)</li> <li>- How does <i>global warming</i> and <i>natural disasters</i> affect our water supply? (p.386-387)</li> </ul>  |
| <p><b>Topic 3</b><br/>         Fresh Water Systems</p>   | <ul style="list-style-type: none"> <li>- In what forms does fresh water exist on the Earth? (p.390-391)</li> <li>- How does land use affect run-off and the health of a watershed? (p.392-394)</li> <li>- Describe how the <i>rate of flow of a stream</i> can affect erosion and sedimentation. (p.396-397)</li> <li>- How do scientists determine the impacts of pollutants on the aquatic environment? (p.400-401)</li> <li>- What is causing <i>aquifer depletion</i>? (p.403-405)</li> <li>- How can groundwater contamination magnify environmental contaminants? (p.406-407)</li> </ul> |
| <p><b>Topic 4</b><br/>         The Oceans</p>  | <ul style="list-style-type: none"> <li>- How do the Oceans get <i>salty</i>? (p. 411)</li> <li>- What does the Ocean floor appear like and how was it formed? (p. 413-415)</li> <li>- Describe the effect of <i>Ocean waves</i> on shorelines and the creation of beaches. (p.417-422)</li> <li>- What causes <i>Tides</i>? (p. 423-425)</li> <li>- How do Ocean currents affect climate and aquatic life? (p. 426-429)</li> </ul>   |
| <p><b>Topic 5</b><br/>         Living In Water</p>   | <ul style="list-style-type: none"> <li>- Describe the diversity of freshwater and saltwater organisms. (p.432-433)</li> <li>- What adaptations do plants and animals develop to enable them to survive in aquatic environments? (p.434-444)</li> <li>- Describe the interactions (food chains and food webs) among aquatic organisms. (p.444-445)</li> <li>- Describe how <i>biomagnification</i> can affect organisms in a food chain. (p.446-447)</li> </ul>   |
| <p><b>Topic 6</b><br/>         Water Quality and Water Management</p>  | <ul style="list-style-type: none"> <li>- What scientific tests are used to determine the properties and quality of a water supply? (p.448-450) (p.453-454)</li> <li>- How do people and water interact negatively? (p.451-452)</li> <li>- Describe how biological organisms can be used as indicators of water quality. (p.455-459)</li> <li>- What is needed in order to maintain a safe, reliable water supply? (p.460-463)</li> <li>- How this be achieved while balancing the needs of people, industries, agriculture and wildlife? (p.465-468)</li> </ul>                                |
| <p style="color: red;">Design a Concept Map linking the ideas introduced and reinforced in this Unit on <b>Fresh and Saltwater Systems</b></p>   |  |
| <p>Try some of the <b>Practice Quizzes</b> to see how much you have recalled from this Unit</p>  |  |