

- 1.0 Humans depend on Water Supply and Quality
   Key Concepts Water resources: oceans, glaciers, groundwater, lakes and rivers
  - Contents of water: minerals, organisms, organic material
  - quality testing ensure it is safe to drink

List the factors	s that are used to	determine water	quality		
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There are two processes that are used to change saltwater into freshwater. Describe and illustrate each. Distillation \_\_\_\_\_ Reverse Osmosis \_\_\_\_\_



#### 2.0 Water in its various states affects Earth's landforms and climate.

- Key Concepts Waves and Tides interact with landforms causing erosion and sedimentation
  - Water interacts with Earth to produce variations in **climate**
  - Stream and River characteristics helps us understand erosion and deposition shape the Earth's surface
  - Plate tectonics (ocean basins and continental drainage system in North America) and **glaciers** (further erosion of the drainage system)

Describe what causes <b>waves</b> and how do they form.	
What effect does water have on <b>shorelines</b> ?	
Describe what tides are and illustrate what causes them to be formed.	
The cause of <b>tides</b>	



Describe the **profile of a river** (How it is formed !... the changes it goes through 2/3... and how it dies 4)

Stream Characteristics	
2	
3)	
THE REPORT OF THE PARTY OF THE	
Tides 4	

What is chemical weathering?



What makes a watershed?	
	Alberta Watersheds
	Hay River Basin
	Peace/Slave River Basin
	Athabasca River Basin
	Beaver River Basin
	North Saskatchewan River Basin
	South Saskatchewan River Basin
	Milk River Basin
Describe the <b>Theories of Continental Drift and Plate</b>	Tectonics.
How do these theories explain geological features on the	ne ocean floor?



Describe the effects **glaciers** have on the land and what **landforms** are created as a result of their growth, decline and movement.

	Glacier in retreat
Moraines	
Eskers	
Drumlins	
Kettle Lakes	
Delta	
What effect does a	a large body of water have on climate?
What effect do <b>oc</b> e	ean currents have on climate?



#### 3.0 Living things in aquatic environments are affected by many factors

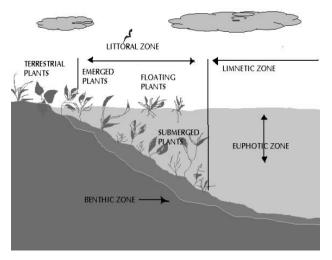
**Key Concepts** 

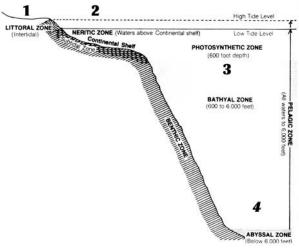
- Organisms are affected by the quality of their aquatic environment
- Water conditions: light, temperature and depth of the water
- Oceans can support a much greater diversity of living organisms
- A **population** the number of a certain species living in a certain area Each aquatic organism has adapted to a particular quality of water

What is <b>diversity</b> ?			•		

Describe the diversity you would find in a pond (l	Like the one illustrated here, or in the textbook - p.373)  — — — — — — — — — — — — — — — — — —

Describe the regions, or zones of a lake and the ocean. How are they similar and how are they different? **Lake Zones Ocean Zones** 





Similarities	 	
Differences		



### 4.0 Human Activities Affect Aquatic Environments

**Key Concepts** 

- Water is used by humans for work, play and for survival
- Greatest use of water **irrigation** for agriculture (next is industry)
- **Monitoring** helps us to determine what impact humans have on the aquatic environments they interact with
- Science and Technology must be supported by Action and Commitment

How do humans use water? (Benefits and Costs)

1	Water Use	Benefits (+)	Costs (-)
	Donatha and Tankarah	all a that are affect water well-	So the Short of Common Sole of
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hy is	Monitoring and Assessin Water Quality	g on a regular basis necessary?	
	water Quality	7	