Name: Date:	Period:			
Name: Date: Period:  3 <sup>rd</sup> Quarter Benchmark Test Study Aide				
Study Materials:				
<ul> <li>Homework Pages Week 1 through Week 9 for 3<sup>rd</sup> Quelass website along with all class presentations and a</li> <li>Study the concepts included in your two returned te</li> </ul>				
Every group in the class has a different topic. Visit each post All topics may not be covered in the class poster review, but out areas where you struggle. Think of this as a practice test	can be found in your old homework pages. Focus on filling			
Hydrosphere & Parts of a River				
What is included in Earth's hydrosphere? Give examples.				
How is <u>all</u> of Earth's water distributed around the world?	How is Earth's <u>freshwater</u> distributed around the world?			
What is the difference between deposition and erosion?				
What and where are the major parts of a river?				
How do oxbow lakes form?				
Describe wetlands & estuary				
What does it mean if water is brackish?				
Currents				
How do ocean currents form?				
What role does salinity play in ocean currents?				
How do ocean currents influence climate of coastal cities?				
What is density?				

Water Cycle			
Describe <b>all</b> parts of the water cycle (precipitation, run off,			
percolation) and how the sun is the driving force behind the	e entire water cycle.		
Base the control of t			
Describe watersheds and river basins relationship			
Difference between groundwater recharge vs. discharge?			
	1		
Describe zone of saturation, aeration and water table	Difference between Permeability and Porosity		
Describe aquifers	Describe aquifer depletion with its consequences		
Danger to Water			
Describe the following hazards to water quality			
Sediment from construction (turbidity):			
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Nitrates and phosphates from farming:			
Runoff from urban and suburban grounds:			
Acidification rom burning fossil fuels:			
Thermal Pollution:	l. 2		
How can improper disposal of chemicals impact the water s	uppiy?		
What is the difference between Point source and Non Point	Source pollution?		
Why should we conserve water?			
Flooding			
How are floods caused?	Where are floods most likely to occur?		
Describe the following forms of flood protection:	Flood Dawriors		
Levees	Flood Barriers		

flood control channels			dams			
Reforestation			con	trolled floodin	a	
Rejorestation			COII	ti onea jiooani	g	
Basics of Earth's Atmosphere						
What are the four layers of the atmosphere "in order		der"?				
			determined?			
What does the atmosphere do for us?			How much pressure does the atmosphere exert per square			
			inch	1?		
What is the composition of Earth's atmo	osphere?		Insolation vs. Albedo			
Describe the stages of Earth's early atmo	osphere					
,	•					
Ozone Layer						
Where is the ozone layer?	What doe	es it do?			Why do we need it?	
,					,	
How is it changing?	What are	CFCs?	How do CFCs affect the ozone layer?			
How do CFCs affect the ozone layer?	l		Where do CFCs come from?			
Global Winds						
		the Coriolis Effect and how does it influence winds?				
What are the major global winds and where are What are		e som	ne of the main	characteristics of the global winds?		
the located?					Ç	
What are the Jet Streams?						
Difference between a land breeze and sea breeze?						

## **Clouds and Thunderstorms** Describe the different types of clouds including fog Where does weather and clouds form? How does a cloud form? What is the difference between weather and climate? How does thunder form? How does lightning form? What is humidity vs. relative humidity? What is dew point? **Tornadoes and Hurricanes** How do tornadoes form? What is a cyclone? Describe the Fujita Scale Tornado watch vs warning How do hurricanes form? Hurricane watch vs warning Saffir-Simpson Scale Under what conditions do hurricanes get stronger? Weaker? **Weather Instruments & Air Masses** What are the different types of air masses? What is the description and type of weather found at areas of high pressure? Low pressure? *List what each weather instrument measures:* wind sock thermometer rain gauge barometer

hygrometer

sling psychrometer

Campbell stokes recorder

Anemometer

## What are the types of fronts and their symbols? Describe how air masses interact at these fronts Describe the weather associated with each type of front What are some examples of weather symbols? When will precipitation be snow vs. rain?

## **Air Pollution**

What are the different types of air pollution?	Where do these types of air pollution come from?
Why is carbon monoxide so dangerous to humans?	What is acid rain?
How is acid rain caused?	What are the effects of acid rain on the environment?