Water Unit Study Guide

√	Definition
, ,	Water Section
	The cycle in which water circulates between the
	earth's oceans, atmosphere, and land.
	Water changing from a liquid to a gas.
	Water vapor in the air is changed into liquid water and
	is responsible for the formation of clouds.
	Releasing water in the form of rain, sleet, snow, hail.
	Water on the ground surface soaks into the soil/rocks
	below ground to recharge groundwater aquifers.
	Water held underground in the soil or pores and
	crevices of rock.
	The area of land that drains to a common body of
	water like a river
	Water stored underground in permeable rock.
	The highest level of water in an aquifer underground.
	Allows water or other liquids to move through.
	Does not allow liquids to move through.
	The process of water evaporating from the stomata.
	A structure that holds back and controls the flow of
	water in a river or other bodies of water.
	Natural or artificial lake used as a source of water
	supply, often created by the construction of a dam.
	Device for pumping water from an aquifer or
	underground storage.
	Atmosphere Section
	The troposphere starts at the Earth's surface and
	where air is most dense. Weather is in this region.
	Temperature gets lower the higher in the layer.
	The stratosphere starts just above the troposphere.
	The ozone layer is in this layer and causes the
	temperature to rise.
	The mesosphere starts just above the stratosphere
	and meteors burn up in this layer. Temperature is
	lower in this region of the atmosphere. The thermosphere starts just above the mesosphere.
	Auroras and satellites occur in this layer and
	temperatures rise.
	This is the upper limit of our atmosphere. It extends
	from the top of the thermosphere and is where space
	and our atmosphere meet.
	Protects life on Earth from the Sun's UV radiation.
	The temporary state of the atmosphere at a place and
	time such as heat, dryness, sunshine, wind, rain, etc.
	Describes weather conditions over a long period of

Matagralage	Dreamb of original company and with the atmosphere	
Meteorology	Branch of science concerned with the atmosphere,	
C F(()	especially as a means of forecasting the weather.	
Greenhouse Effect	Heat from the Earth is radiated outward and absorbed by	
	the greenhouse gases in the atmosphere. This process	
	prevents heat from disappearing into space.	
Ocean Section		
Sunlight Zone	It is in this zone where most visible light exists and most	
	life exists. Temperature is the highest of the ocean zones	
	and pressure is the lowest of the ocean zones.	
Twilight Zone	Sunlight is very faint. The temperature is getting colder	
	and pressure continues to increase.	
Midnight Zone	The only light at this depth (and lower) comes from	
	bioluminescence. The temperature continues to decrease	
	while the pressures increases.	
Abyss Zone	The water temperature is constantly near freezing and	
	only a few creatures can be found at these crushing	
	depths. Pressure is extremely high.	
Trenches Zone	The deepest zone of the ocean like a crack on the bottom	
	of the ocean floor. The temperature is constant at just	
	above freezing with pressure at its highest.	
Mariana Trench	The Mariana Trench is off the coast of Japan and is the	
	lowest point in the ocean.	
Bioluminescence	The production and emission of light by a living organism.	
Oceanographer	Scientist who studies the ocean structures, and floor.	
Marine Biologist	Scientist who studies the variety of life forms in the ocean.	
Sonar	This emits a sound wave into the water and the sound	
	bounces off the object and returns an "echo".	
Submarine	A watercraft capable of independent operation	
	underwater. This is larger, holds more people, and can	
	stay underwater longer than a submersible.	
Submersible	An underwater vehicle that is useful in ocean exploration.	
Judilicialdic	7 in anderwater vernere that is declar in occan exploration.	

Review Questions

- 1. Describe how water moves through the water cycle.
- 2. Explain how our watershed supplies us with water in our community.
- 3. How does people's use of water impact or pollute aquifers underground?
- 4. Why is it difficult to gain access to clean water around the world?
- 5. Describe the difference between weather and climate.
- 6. How has the greenhouse effect affected climate?
- 7. Describe the ozone layer and why it is important.
- 8. Describe two things about each layer of the atmosphere as you go up.
- 9. Explain the differences between an oceanographer and a marine biologist.
- 10. Why is bioluminescence a critical part of life in certain parts of the ocean?
- 11. Describe the tools and vehicles used to study the shape of the ocean floor.
- 12. List and describe three ocean floor features.