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Weather & Climate Test 1 Study Guide

Vocabulary

- Altitude
- Atmosphere
- Troposphere
- Stratosphere
- Mesosphere
- Thermosphere
- Ozone
- Ionosphere
- Exosphere

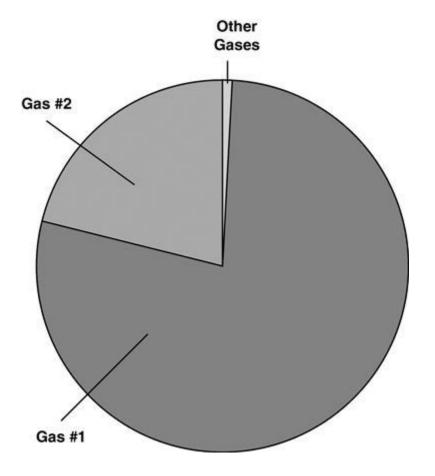
- Global Warming
- Greenhouse Effect
- Precipitation
- Condensation
- Evaporation
- Accumulation
- Transpiration
- Radiation
- Convection

- Conduction
- Meteorologist
- Runoff
- Water Vapor
- Groundwater
- Stratus
- Cumulus
- Cirrus

Questions

- 1. Which trait is common in gases that contribute to Earth's greenhouse effect?
 - a. The ability to trap heat
 - b. A tendency to lose electrons
 - c. A tendency to exist as diatomic molecules
 - d. The ability to bond with multiple other elements
- 2. This circle graph shows the percentages of different gases in Earth's atmosphere.

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Which gas is represented by Gas #1?

- a. Carbon dioxide
- b. Hydrogen
- c. Nitrogen
- d. Oxygen
- 3. In which layer of Earth's atmosphere does weather occur?
 - a. Mesosphere
 - b. Stratosphere
 - c. Thermosphere
 - d. Troposphere

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4.	Storms transport water in the form of rain. The energy that starts this process co	mes from	
	which of these?		
	a. The oceans		
	b. The sun		
	c. Clouds		
	d. Earth		
5.	When is the MOST energy transferred from the Sun to water in the water cycle?	ı	
	a. During collection		
	b. During evaporation		
	c. During condensation		
	d. During precipitation		
6.	Energy from the Sun causes evaporation. Why does more evaporation happen fr	om the	
	oceans than from freshwater sources?		
	a. Oceans have a greater surface area.		
	b. Salt water evaporates faster than fresh water.		
	c. The air over oceans can hold more water vapor.		
	d. Oceans touch more landmasses than freshwater sources.		
7.	State which layers of the atmosphere temperature decreases as the altitude incre	ases.	
8.	State which layers of the atmosphere temperature <i>increases</i> as the altitude increases	ases.	
9.	Which layer of Earth's atmosphere has the highest amount of pressure?		
	a. Troposphere		

b. Stratosphere

c. Mesosphere

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- d. Thermosphere
- 10. In which layer of the atmosphere do planes fly?
 - a. Exosphere
 - b. Thermosphere
 - c. Mesosphere
 - d. Stratosphere

Reference Page-What you should make sure you know

- The layers of the atmosphere.
 - o How temperature changes through each layer of the atmosphere.
 - o How pressure/density of the atmosphere changes in each layer.
- What percent of the atmosphere do different gases take up.
- What is the main effect of greenhouse gases.
- Ozone (O₃) protects the earth from deadly solar radiation.
- Humidity is the measure of the amount of water vapor present in the air.
- The sun powers the water cycle.
- The ocean is the source of most evaporated water due to its large surface area and the direct sunlight it receives.
- The 4 steps to the water cycle and what each one means.