

Honors Earth Science Study Guide

Answer the following questions on a separate sheet of paper.

- Define these parts of the water cycle.
 - Accumulation – (reservoirs) places where water builds up
 - Condensation – gaseous water forms liquid water after cooling
 - Evaporation – liquid water forms gaseous water after heating
 - Precipitation – gaseous water condenses in the atmosphere, causing rain, hail, snow, sleet, etc.
 - Runoff – precipitation over land collects and flows to lower, larger bodies of water
 - Transpiration – plants lose water from their leaves through small pore-like openings
 - Groundwater – water stored in the ground in aquifers, reservoirs, caverns, etc.
- What causes the temperature to decrease with altitude in the troposphere?
The sun heats the ground and the water on Earth's surface. As you move farther from these heat sources, the air becomes colder.
- The amount of water in Earth's atmosphere: **changes/does not change. (Circle One)**
Does not
- What causes the temperature to rise in the stratosphere?
The ozonosphere contains ozone, a molecule that absorbs harmful light from the sun. As it absorbs this light, the light energy is transformed into heat.
- What is the composition of the atmosphere? (In terms of elements)
Mostly nitrogen (78%), with smaller parts oxygen (21%) and other gases (<1%)
- In your own words, describe how air pressure decreases as you climb a mountain. Use the word density.
Air pressure decreases as you move up a mountain because the molecules have weight. Most of the molecules are drawn toward the lowest layer of Earth, so fewer and fewer escape to outer layers. Since the number of these molecules is so small, and the amount of space is the same, the density is low.
- During thermal expansion, density decreases. Explain why using the following words: mass, volume, kinetic energy.
During thermal expansion, density decreases because the heat absorbed by molecules is kinetic energy (motion of molecules – we define temperature as the speed of molecules, hence "kinetic"). As the substance expands, mass doesn't change – only its volume increases. We are not adding mass to the sample. Since density is mass/volume, density goes down as volume goes up.
- How is temperature different from thermal energy?
Temperature is a measure of the speed of molecules, and has no relation to the number of molecules in a sample. But, total thermal energy combines all kinetic energy of all molecules in a sample, meaning it is heavily reliant on the number of molecules.
- Why does warm air rise?
Warm air rises because the gases experience thermal expansion. As they expand, their density decreases. Less dense materials float on top of other ones, so the warm air will rise through cooler, denser air.
- Wind is the movement of air caused by a difference in _____.
_____.
Air pressure
- Air pressure always (naturally) flows from areas of _____ pressure to _____ pressure.
High, low

Honors Earth Science Eoc Study Guide Answers

BM King



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