| Atmosphere Quiz Study Guide | | Name Date | Dey | Hour | |
|---|---|----------------------|-----------------|--|---------------|
| Learning Goals | | | | | |
| describe the mixture of gases in the atmosphere. | | | | | |
| • | | | | | |
| they are alike and different. | | | | 100 (100 (100 (100 (100 (100 (100 (100 | |
| Vocal | oulary | | | | |
| atmosphere | | oxygen | air pre | ssure | |
| water vapor | | carbon dioxide | air poll | | xygen |
| nitrogen | | trace gases | | 7 | Argont |
| nitrogen trace gases Review Questions 1. What are the 2 main gases (and their percentages) that make up the stmoophere? | | | | | |
| 1. | What are the 2 main | gases (and their per | centages) tha | at make up th | ie trace gass |
| | a. Nitrogen % 78 b. Oxygen % 21 | | | | |
| 2. | What are trace gases? | | | | |
| | gases that make up a very small % of the atmosphere | | | | |
| 3. | What percent do trace gases make up of our atmosphere? _< \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ | | | | |
| | Besides Argon,, what is the most abundant gas of the remaining trace gases? | | | | |
| 5. | 5. Other trace gases in our atmosphere include (list at least 3): | | | | |
| | | um, Water Vape | | | |
| 6. | How do the combinations of gases in our atmosphere make the conditions | | | | |
| | suitable for living things? (i.e. which gases are present that living things depend | | | | |
| | on?) | | | | |
| | 21% Oxygen allows animals to breathe; CO2 to support plant life; low levels of toxic gases | | | | |
| | support pla | int life; low 1 | evels of | toxic | gases |
| 7. | What two gases were | e present when the e | arth first form | ned? | |

| 8 | 3. How did carbon dioxide first get introduced to our planet, and then what |
|------|---|
| | happened to it (i.e. why isn't there as much in the atmosphere today?)? |
| | Volcanic Eruptions; absorbed by oceans |
| 9 | . How was oxygen introduced to our planet? |
| | living things doing photosynthesis |
| 1 | 0. What effect have human activities had on the amount of carbon dioxide in our |
| | atmosphere in recent history, and how has this affected our planet? |
| | increased CO2 due to factories, automobiles, etc |
| | contributing to Greenhouse Gases/global warming |
| 1 | 1. Which gas(es) change percentage as the elevation increases above the surface |
| | of the earth? |
| | . Water vapor |
| 1 | 2. Which gas(es) stay the same percentage throughout the layers of the |
| ત ત્ | atmosphere? |
| | Nitrogen, Oxygen, Argon |
| 1 | 3. Which layer of the atmosphere has the most water vapor? |
| | troposphere |
| 1 | 4. How does the temperature change as you increase elevation (go higher) in the |
| | atmosphere? |
| | decreases generally we some increase |
| | at level boundaries |
| 1 | 5. How does the pressure change as you increase elevation (go higher) in the |
| | atmosphere? |
| | decreases |
| | • |
| 1 | 6. How does the density of gases change as you increase elevation in the |
| | atmosphere? |
| | decreases |
| | |
| 1 | 7. What is air pressure? What gives air its weight? |
| | |
| | Effect of gravity weighing/pulling down air molecules. |