

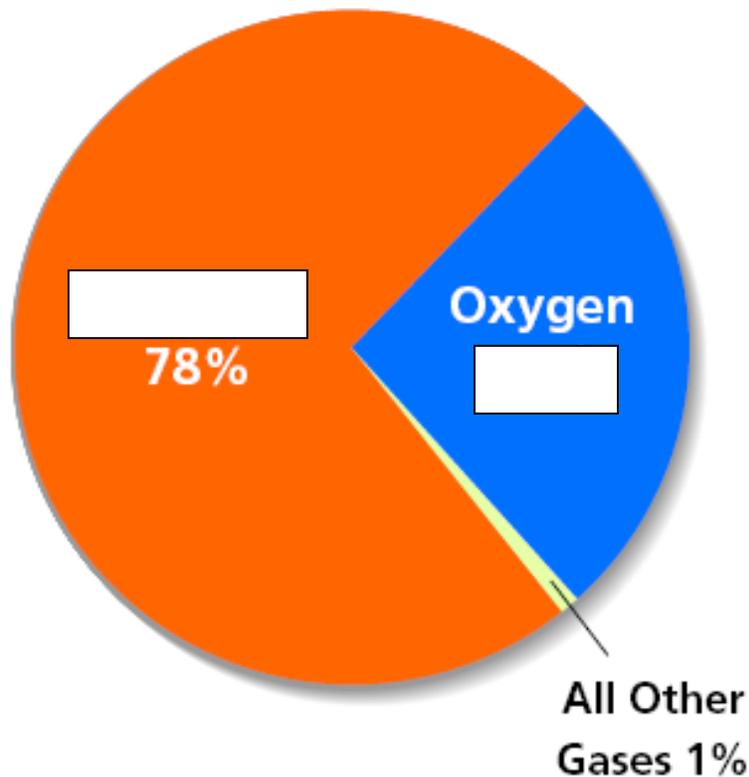
Name \_\_\_\_\_

Date \_\_\_\_\_

Core \_\_\_\_\_

## GASES in the AIR

*Fill in the blanks in the notes as we discuss each gas.*



### Nitrogen

Nitrogen is a major part of \_\_\_\_\_, including DNA. The nitrogen in the atmosphere dilutes the \_\_\_\_\_. That is a good thing because if we had too much oxygen, we would die. Nitrogen can't be used by cells directly from the air. First it has to be turned into a useful form by \_\_\_\_\_ bacteria.

## Oxygen

Oxygen is \_\_\_\_\_ for our survival. Our cells use oxygen to create \_\_\_\_\_. All of the oxygen in our atmosphere has been created by \_\_\_\_\_ through the process called \_\_\_\_\_.

## Carbon Dioxide

Carbon dioxide is used by \_\_\_\_\_ for \_\_\_\_\_. Carbon dioxide is a \_\_\_\_\_ gas, which means it helps to keep our planet \_\_\_\_\_. However, recent increases in carbon dioxide have caused \_\_\_\_\_.

## Trace Gases

Other gases that are not very common in the atmosphere are called trace gases. \_\_\_\_\_ helps filter out the sun's harmful rays. Argon is used in \_\_\_\_\_ because it will not catch fire even in extreme \_\_\_\_\_. Water \_\_\_\_\_ can condense to form clouds. \_\_\_\_\_ inflates balloons and blimps.

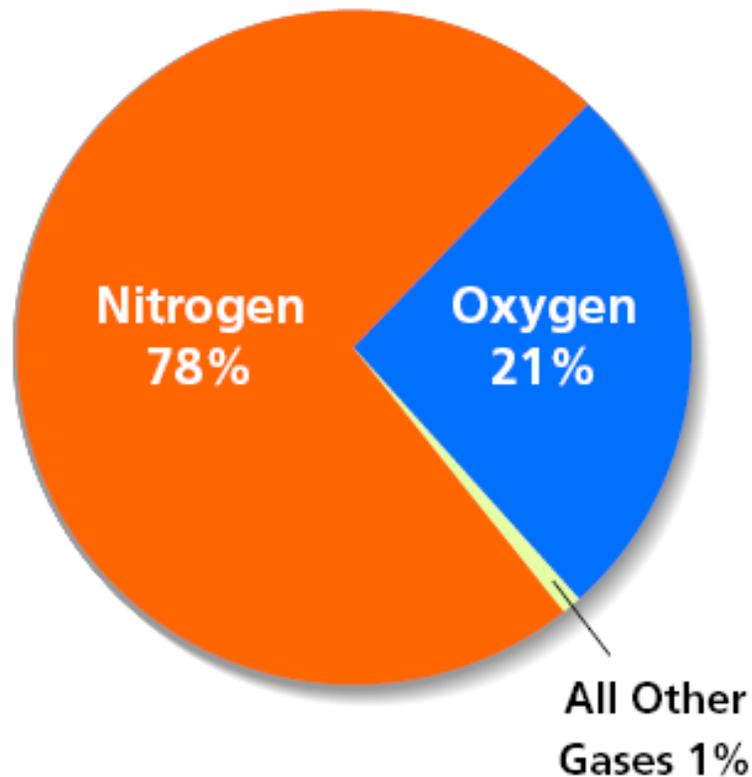
Name \_\_\_\_\_

Date \_\_\_\_\_

Core \_\_\_\_\_

## GASES in the AIR

*Fill in the blanks in the notes as we discuss each gas.*



### Nitrogen

Nitrogen is a major part of **proteins** including DNA. The nitrogen in the atmosphere dilutes the **oxygen**. That is a good thing because if we had too much oxygen, we would die. Nitrogen can't be used by cells directly from the air. First it has to be turned into a useful form by **nitrogen-fixing** bacteria.

## Oxygen

Oxygen is **necessary** for our survival. Our cells use oxygen to create **energy**. All of the oxygen in our atmosphere has been created by **plants** through the process called **photosynthesis**.

## Carbon Dioxide

Carbon dioxide is used by **plants** for **photosynthesis**. Carbon dioxide is a **greenhouse** gas, which means it helps to keep our planet **warm**. However, recent increases in carbon dioxide have caused **global warming**.

## Trace Gases

Other gases that are not very common in the atmosphere are called trace gases. **Ozone** helps filter out the sun's harmful rays. Argon is used in **light bulbs** because it will not catch fire even in extreme **heat**. Water **vapor** can condense to form clouds. **Helium** inflates balloons and blimps.