

Chapter  
19.1

Transparency Worksheet 35  
**Composition of the Atmosphere**

1. List the three most abundant gases in the atmosphere from most abundant to least abundant.

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2. Why do you think water vapor is not included in the pie graph?

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3. List examples of gases that would be included in the pie graph's "Other" category.

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4. Why is ozone gas important to the earth's living things even though it is not listed in the graph?

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5. Helium and neon are nonreactive gases and thus could not have been produced by chemical reactions. Where might they have come from?

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**M O D E R N E A R T H S C I E N C E****Transparency Worksheet 36  
Atmospheric Cycles**

1. What types of organisms both use and produce oxygen and carbon dioxide?

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2. How is the use of oxygen in living things similar to the use of oxygen in fuel-burning power plants?

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3. How is nitrogen released into the air?

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4. How is nitrogen returned to the soil?

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5. How do nitrogen-fixing bacteria contribute to the growth of plants?

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Transparency Worksheet 37  
**Layers of the Atmosphere**

1. What phenomena seem to distinguish one layer of the atmosphere from another?

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2. Where in the atmosphere is the temperature the lowest?

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3. Where in the atmosphere is the pressure the highest?

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4. Why do you think temperature decreases through the troposphere and increases through the stratosphere?

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5. How do changes in temperature in the atmosphere differ from changes in pressure?

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Nitrogen Cycle

Atmospheric Layers w/Temp & Pressure

Oxygen Cycle

