

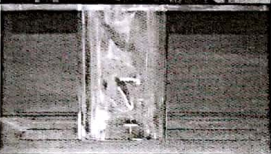
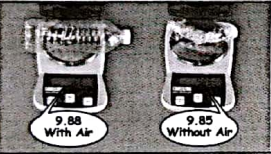



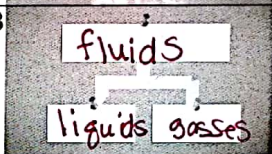
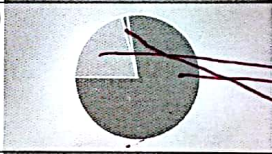
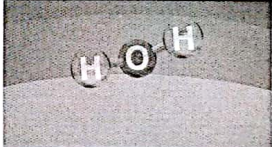


KEY

WORKSHEET Page 1

<p>1</p> 	<p>List the four states of matter:</p> <p><u>Solid</u> <u>liquid</u> <u>gas</u> <u>plasma</u></p> <p>Mark an "X" through the one that is not relevant to understanding air.</p>
<p>2</p> 	<p>Is air a solid, liquid or gas?</p> <p><u>a mix of gases</u></p>
<p>3</p> 	<p>Water doesn't fill the upside down glass because...</p> <p><u>air takes up space</u></p>
<p>4</p> 	<p>The crushed bottle weighs less than the one with air because...</p> <p><u>air has mass</u></p>
<p>5</p> 	<p>At sea level, our atmosphere exerts a pressure of...</p> <p><u>14.7 psi</u></p>

WORKSHEET Page 2

<p>6</p> 	<p>What keeps everything on the surface of the Earth from being crushed by the pressure of the atmosphere?</p> <p><u>equilibrium</u></p>
<p>7</p> 	<p>When air is heated, it...</p> <p><u>expands (making it less dense)</u></p>
<p>8</p> 	<p>Write in the following words in the correct places on the flow chart to the left.</p> <p>Liquids Gasses Fluids</p>
<p>9</p> 	<p>Write in the names of the 3 major gases in our atmosphere and draw a line to the wedge on the pie chart that shows the percentage for each one.</p> <p><u>N₂ (78%)</u> <u>O₂ (21%)</u> <u>Ar (0.9%)</u></p>
<p>10</p> 	<p>What is the name of the invisible, gaseous form of water in the air?</p> <p><u>water vapor</u></p>



What Is Air?

3 Student Page Video Part II

WORKSHEET Page 1

1 **HYDROLOGIC CYCLE**
Name some of the processes that take place in the hydrologic cycle.
evaporation condensation
precipitation transpiration
freezing thawing

2 Water vapor is more likely to condense into clouds where the air temperature is...
_____ higher.
 lower.

3 Label the lower two layers of the atmosphere on the diagram on the left.
stratosphere
troposphere

4 Name the lower layer of the atmosphere and connect the temperature with the correct location.
troposphere
Higher Temperatures Higher in the Layer
Lower Temperatures Lower in the Layer

5 What are the three major factors that cause air to move around so much in the lower layer of the atmosphere?
density
temperature
air pressure

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What Is Air?

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WORKSHEET Page 2

6 Name the second layer of the atmosphere and connect the temperature with the correct location.
stratosphere
Higher Temperatures → Higher in the Layer
Lower Temperatures → Lower in the Layer

7 The ozone layer in the second layer of the atmosphere
absorb solar radiation.

8 In which layer of the atmosphere is ozone a good thing and which is it a danger to our health?
Ozone is a good thing in the stratosphere
Ozone is bad for us in the troposphere

9 In which layer(s) of the atmosphere will you find 99.9% of the atmospheric mass?
tropo + strato

10 In which layer of the atmosphere will you find most of the clouds, weather and pollution?
troposphere

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