

Th's Our Air!

STUDENT

It's Our Air: The Properties of Air

What is Air? – For this activity you need to have the attached review sheets available so that you are able to write or type into them while you watch the video on the different properties of air.

1. Watch the following Video

Video on Properties of Air 12 minutes

- 2. Complete the following review sheets on the video and feel free to watch the video more than once to make sure that you have the information. See attached pages for review sheets.
- 3. You should try to complete some of the experiments with your parents or siblings at home!
 - For a look at air pollution in North Carolina you can view this video:

<u>Air Pollution in NC</u> 9 minutes





1	OUR B	List the four states of matter: Mark an "X" through the one that is not relevant to understanding air.
2		Is air a solid, liquid or gas?
3		Water doesn't fill the upside down glass because
4	9.88 With Air Without Air	The crushed bottle weighs less than the one with air because
5		At sea level, our atmosphere exerts a pressure of



Student page Video part I

6		What keeps everything on the surface of the Earth from being crushed by the pressure of the atmosphere?
7		When air is heated, it
00		Write in the following words in the correct places on the flow chart to the left. Liquids Gasses Fluids
9		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.
10	H.O.H	What is the name of the invisible, gaseous form of water in the air?



Student page Video Part II

1	HYDROLOGIC	Name some of the processes that take place in the hydrologic cycle.
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.
4		Name the lower layer of the atmosphere and connect the temperature with the correct location.
		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?



Student Page Video Part II

6		Name the second layer of the atmosphere and connect the temperature with the correct location.
		Higher Temperatures Higher in the Layer Lower Temperatures Lower in the Layer
7		The ozone layer in the second layer of the atmosphere
	O Z O N E L A Y E R	solar radiation.
8		In which layer of the atmosphere is ozone a good thing and which is it a danger to our health?
	_O ZONE LAYE _R	Ozono is a good thing in the
		Ozone is a good thing in the
	0-0-0	Ozone is bad for us in the
9		In which layer(s) of the atmosphere will you find 99.9% of the atmospheric mass?
10		In which layer of the atmosphere will you find most of the clouds, weather and pollution?