	/hat is Air Pressure? ges 48 - 52		Name: Date:		_Period:	NB#:	
1.		s the fo					
	Since air has, it exerts pro					,	
3.	It is estimated that we have approximately heads.	У	kg of a	air pust	ning down o	n our	
4.	Atmospheric pressure is also known as the Earth's surface as it is pulled to the Earth					g on the	
5.	What keeps the molecules moving aroun	d in all d	directions	?			
6.	So, air pressure is not just pushing down, in direction.	but atm	iospheric p	oressur	e acts with	equal force	
7.	The higher you travel in the atmosphere,	the <i>low</i>	er/highe	r the a	ir pressure	will be.	
8.	This is because as you travel higher, you	have fe	ewer/mor	e airr	nolecules a	bove you.	
9.	At sea level, the air is more compressed than at higher altitudes. Therefore, the air at sea level is at sea level than at higher altitudes. It would be heavier for its size or volume.						
10.	The first barometer was invented in 1643	by				•	
11.	It was a long glass tube in a dish filled wit	th			· ·		
12.	At the top of the inverted tube was a space this kind of space a	e that ha 	d no matte	er in it,	not even aiı	r. We call	
13.	The mercury does not all fall out of the tu is pushing down on the mercury left in the	be beca bowl.	use				
14.	The air pressure of a column of atmospher both have the same mass, which is		4				
15.	If the atmospheric pressure happened to gwould be <i>lower/higher</i> .	get a little	e higher, t	hen the	e mercury ir	the tube	
	The type of barometer that operates by a air pressure exerted on bellows is called						
17.	The advantage of this type of barometer	is that it	is	•	and	more	

18	Sensor and a transmitter are attached to send pressure data back to the station.
19	. A barometer can be used to determine elevation to aid airplane pilots. This is called an
20	. Average atmospheric pressure at sea level is bar.
21	One bar is equal to millibars.
22	2. They say that standard pressure is actually mb.
23	So, if the air pressure is reported to be 1019 mb, then it is slightly than normal.
24	I. If the air pressure is reported to be 1006 mb, then it is slightlythan normal.
	nink Questions:
25	5. When you drive up a mountain, what makes your ears feel strange? Where is pressure higher or lower?
26	S. Why doesn't air pressure crush an empty pop can?
27	7. If a meteorologist says that the air pressure is getting lower, what would you expect to see happen to Torricelli's mercury barometer?
28	8. If you were to drill a little hole at the top of the glass tube holding the mercury in the barometer, what would happen to the barometer?
2	9. Suppose you blow up a balloon and take it on an air plane ride. What would you observe happen to the balloon as the plane rises into the air?

30. Why is it so important for astronauts to have space suits that regulate pressure?