Student's Name	
THINKING WITH	SCIENCE
Observation Quiz	
Lesson 8 (The Vial)	

- 1. Why could you tell from the diagram that the vial liquid was water, if you knew that the jar liquid was water?
 - A. it was clear
 - B. air floated above it
 - C. there was no cap on the vial
 - D. water is the only clear, colorless liquid
- 2. Why would it be logical to ask whether the vial gas is helium?
 - A. because the gas was floating on the water
 - B. because helium rises
 - C. because helium is colorless
 - D. none of the above
- 3. What two words explain why this focus works?
 - A. density and pressure
 - B. weight and pounds
 - C. water and gas
 - D. air and liquid
- 4. In the Latin language, "com" means"
 - A. after
 - B. before
 - C. together
 - D. up
- 5. A universal law that is involved in this focus is:
 - A. all gases can be compressed
 - B. all gases float
 - C. water sinks in oil
 - D. liquids can be compressed
- 6. The compressed air that Scuba Divers used is:
 - A. put into their tanks under high pressure
 - B. compressed
 - C. released through a regulator
 - D. all of the above

A. 32			
B. 150			
C. 15			
D. 12	-		
O. The viol giples when you proce on the cover becomes			
9. The vial sinks when you press on the cover because:	•		•
A. more water enters			
B. the air compresses			
C. both of the above			
D. neither of the above			
10. When the lid is off a container, the pressure, at sea level, is:			
A. the same inside and outside the container			
B. 12 pounds per square inch			
C. greater on the inside than on the outside			
D. greater on the outside than on the inside			
D. greater on the outside than on the histor		• •	
11. The part of the contlect is incide our hadrahada har harries			
11. The part of the ear that is inside our body has how many sections:			
A. 1			
B. 2			
C. 3			
D. 4			
12. The Eustachian tube connects:			
A. the outer ear and the middle ear			
B. the middle ear and the throat			
C. the middle ear and the inner ear			
D. none of the above			
2. Holle of the troops			
13. The auditory nerve leads from the inner ear to:		•	
A. the brain			
B. the middle ear			
C. the outer ear			
D. the throat			•

8. Most automobile tires have an air pressure, in pounds per square inch, of:

7. How deep is the atmosphere of the earth?

A. 8000 miles
B. 250 miles
C. 63 miles
D. 5000 feet

14 If the condense can't without a freely than
14. If the eardrum can't vibrate freely, then:
A. we can't hear very well
B. we get headaches
C. the pressure is the same on both sides of it
D. we have wax in our ears
15. When your ears pop, it is caused by:
A. the inner ear
B. the Auditory nerve
C. the ear drum
D. the outer ear
16. You can demonstrate that air expands when pressure is decreased on it by:
A. Opening a plastic water bottle on Mount Rainier, capping it, and
driving home with it.
B. Opening a plastic water bottle at home, capping it, and driving up on
Mount Rainer.
C. Pressing on the cover of the focus
D. Filling a Scuba diver's tank
17. Why shouldn't you hold your nose, close your mouth, and blow hard with your lungs?
A. The Eustachian tube will get plugged
B. The inner ear will get damaged
C. The auditory nerve could get damaged
D. The ear drum could get damaged
18. When you press on the cover of the focus, the increases everywhere inside the
cover.
A. water
B. pressure
C. air
D. all of the above
19. Making a mass of air smaller is called it.
A. declining
B. expanding
C. compressing
D. decompressing it
D. decompressing it
20. Everything above earth's atmosphere is called:
A. space
B. the troposphere
C. the hydrosphere
D. protoplasm

Students's Name ANDWER KEY									
OBSERVATION QUIZ FOR "THINKING WITH SCIENCE"									
Quiz for Lesson 8 Quiz Number									
1.	A	В	(c)	D	E				
2.	A	B	C	D	E				
3.	(A)	В	C	D	E	· .	· - \ - \		
4.	A	В	(c)	D	E				
5.	(A)	В	С	D	E	•			
6.	A	В	C	(D)	E	٠.			
7.	A	В	(C)	D	E				
8.		В	C	D	E				
9.	A	В	(c)	D	E		•	•	
10.	(A)	В	C	D	E			, i'	
11.	A	В	(3)	D	E				
12.	A	(B)	C	D	E	·			
13.	(A)	В	C	D	E				
14.		В	C	D	E				
15.	A	В	(C)	D	E				
16.	A	B	C	D	E				
17.	A	В	C	(D)	E				
18.	A	(B)	C	D	E				
19,	A	В	0	D	E				
20.	(A)	В	C	D	E				