Respiratory System: Fractice Stench
uzhren zu e en entretan a vin-von g
1. What is diffusion and where does it take place in the body and how?
Phenomenon where a fluid (gas) displaces from
an area of high concentration to an area of
an area of high concentration to an area of low concentration through semi-permeable membra 2. Describe what happens when a person inhales. (alvoli +
Diaphraem relaxes moves down lungs increase (alveoli +
2. Describe what happens when a person inhales. Diaphragm relaxes /moves down. Lungs increase capilla in size pressure of lungs lowers - Dz enters lungs & goes to all
3. If we get laryngitis, what part of our respiratory system is affected? Why? * Chest opens u
larynx-voice/vocal cords affected.
4. Below is a representation of an alveoli next to a capillary
vessel. Draw arrows to show the flow of oxygen and carbon
dioxide. What two characteristics allow gas exchange?
diffusion / semi permeable
5. What is the function of the respiratory system?
For Air to enter - gas exchange 02 1002 10000 02
6. What is the function of the nasal cavity?
warm air
trap dut/dust with alia, moister air.
7. The air we inhale contains 21% O ₂ and 0.04% CO ₂ . The air we exhale contains 16% O ₂ and 5% CO ₂ . When giving mouth to mouth, will the person receive enough oxygen? Explain.
We only retain 5%. 8 02 - 16% will be exhaled
each breath so that we cam provide it to pe
8. What defense do we have against foreign particles? recieving CPR.
nostril hair, alia, nucos.
9. Why is it that only carbon dioxide and oxygen can pass through the alveolar membranes?
other molecules are too long to pass through sem
10. What is the passageway air follows to get to the lungs?
more cast of property to across or and
11. What is the waste created during respiration? How is it eliminated?
(Oa - exhaling
12. What is the functional unit of the lung?
13. What is the muscle of respiration?
diaphragm
14. What protects the lungs?

rib cage

Name: _

15. Explain how our lungs increase and decrease in size. * refer to table in notes* 16. People with cystic fibrosis have an accumulation of mucus in their respiratory airways which stop cilia from doing their job and make breathing difficult. Explain why these people are more prone to suffering from pneumonia. Too much mucus causes excess fluid build. up & bacteria is not trapped because alia to not working well so can get to lungs of 17. What parts of the respiratory system are made of cartilage? laugne tracken bronch, broncholer. 18. Fill in the table. Ribs Diaphragm Lung volume Moves up \$ out Inspiration increases down down + Expiration moves up-19. Why does oxygen go from the alveoli to the blood vessel then from the blood vessels to the cells? * to bring Oz to cells so that cellular respiration can happen + energy can be weated. 20. Why does carbon dioxide go from the cells to the blood vessels then from the blood vessels to the alveoli?

y does carbon dioxide go from the cells to the blood vessels then from the blood alveoli? To remove waste from allular respiration from all s.

21. Draw a diagram (side profile) of what happens when a person inhales and when a person exhales. Include information on the movement of the chest muscles, diaphragm, the pressure (draw air particles to symbolize high and low pressure) and the direction of the flow of air.

INHALATION:

EXHALATION:

* Refer diagrams