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## GAS EXCHANGE



Oxygen and carbon dioxide are exchanged in the alveoli of the lungs and through all cell membranes of the body. Capillaries transport blood to and from the alveoli and the cells in order to facilitate this process. Four students wondered which process actually drives gas exchange. This is what they said about it:

Jaden: Elena: I don't think it takes any energy to move carbon dioxide and oxygen in and out of the cells. I think they move across the cell from high to low concentration. I learned about this in school once, but I can't remember the name of the process cells use to do this. I think the cells use energy to move oxygen and carbon dioxide across the cell membranes. I'm certain it takes some cellular energy to move those particles in and out of the cell. After all, we breathe faster when we need more energy, right?

I think the cells use a process called filtration to separate out solids from gases. That allows them to move the oxygen and carbon dioxide across the cell membrane so cells get the oxygen that they need and they get rid of the curbon dioxide that they don't need.

Nakia:

Mitchell: I think cells use a type of passive transport to move the oxygen and carbon dioxide across the membrane from high concentration to low concentration. This doesn't require energy. It's called osmosis and it's a pretty simple process actually.

use for gas exchange. Use a different color for false statements they made. FIRST; underline or highlight any part of their statement that is true about the process that cells

		THEN: Who do you agree with the most?
		Explain why below Be specific

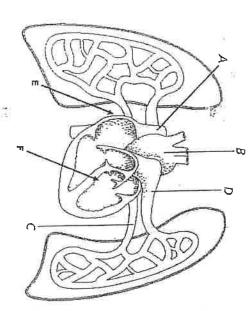
+ Color code

02-rich blood

02- poor blood

parts:

The Circulatory System & Heart



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- Draw the path that blood travels onto the diagram above, starting with blood returning to the heart from the body.
- Compare-arteries, vein and capillarles.
- Explain the function of a heart valve.
- What muscle of the circulatory system pushes blood through the arteries and veins?
- What is blood pressure?
- Where does CO₂ in the blood ∰ame from?

8. What is weird/special about C and D above?