

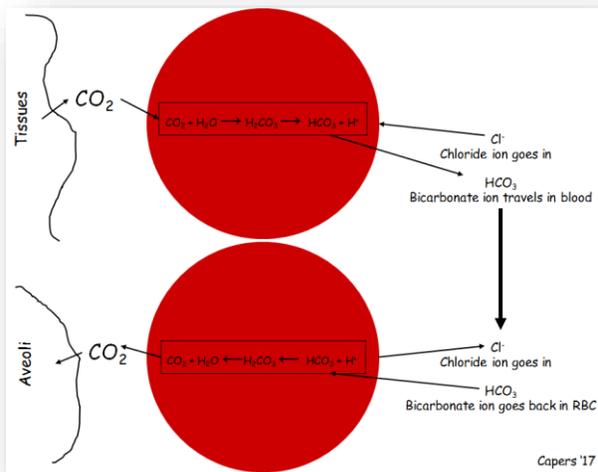
YOU MUST HAND WRITE YOUR ANSWERS

1. What evolutionary changes have occurred to optimize the rate of diffusion in respiration?
2. What is partial pressure?
3. How do fish breathe?
4. How do amphibians breathe?
5. How do insects respire?
6. Explain why the avian respiratory system is more efficient than the mammalian system.
7. What 2 muscle sets are involved in inhalation?
8. What is tidal volume?

9. What is vital capacity?

10. Explain the Bohr shift/effect.

11. Explain what is occurring in this figure:



12. Is breathing trigger by a low level of oxygen in the blood OR a decrease in blood pH (due to increased levels of CO₂)?