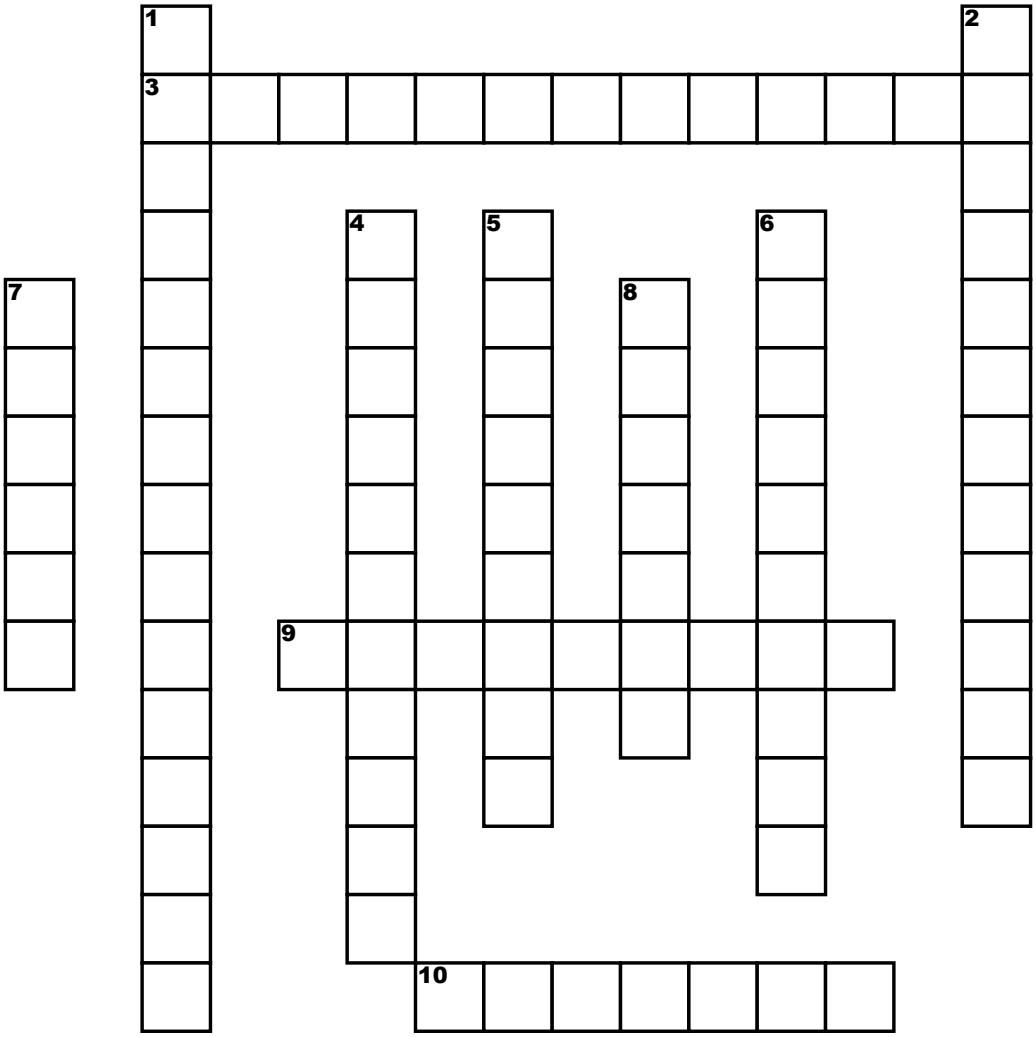
Gas Exchange Surfaces



Across

3. Gas by-product of respiration

9. Which one-cell-thick blood vessel comes in contact with the alveolar walls to increase gas exchange in the lungs by increasing surface area?

10. What is the term to describe the release of energy from glucose by combining it with oxygen? (Glucose + Oxygen = Carbon Dioxide + Water + Energy)

Down

1. The process by which dissolved molecules move across a cell membrane from a lower to higher concentration(concentration gradient) using energy obtained from respiration.

2. Uses the protein, haemoglobin, to carry oxygen from the lungs around the body and carry carbon dioxide to the lungs away from the body

4. The cellular process which releases energy from the macronutrients (carbohydrate, fat, protein)

5. The movement of gas particles, solvent or solute, from an area of high concentration to an area of low concentration

6. What term describes a process (e.g respiration) that releases energy

7. Needed alongside glucose for respiration to take place

8. What parts of the lungs does gas exchange occur in humans?

Word Bank

Red Blood Cell	Capillary	Exothermic	Active transport
Alveoli	Oxygen	Aerobic	Carbon dioxide
Respiration	Diffusion		