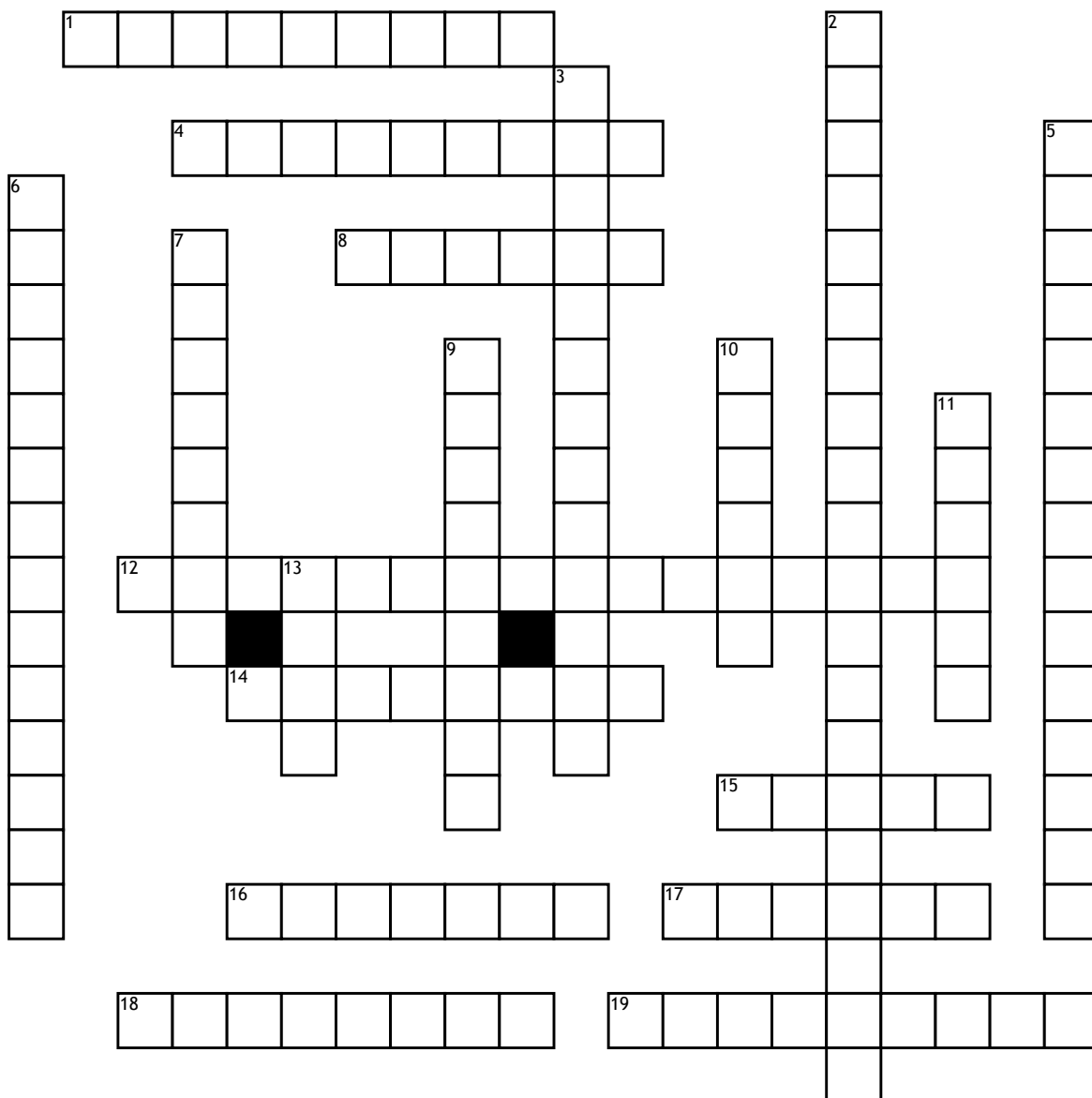


# The Heart



## Across

1. passive movement of particles down a concentration gradient
4. a fond heart
8. structure with thin walls and generally low pressure
12. supply heart muscle with oxygen
14. transports de-oxygenated blood to the heart
15. transports oxygenated blood around the entire body
16. monocellular walled structures where gas exchange occurs

17. acts as a barrier separating oxygenated and de-oxygenated blood

18. name of the circuit of blood to the body

19. in relation to the lungs

## Down

2. lack of oxygen induced damage to the heart
3. prevents backflow of blood into left atrium
5. prevent blood from backflowing into the heart, pretty shaped
6. prevents blood from backflowing into the right atrium

7. movement of large bulk of substance in one direction

9. blood is pushed in here after the atria contracts

10. absence makes the heart grow fonder, or gives you a heart attack

11. system in which blood is enclosed in vessels

13. system in which blood is pumped into the cavities when the heart contracts