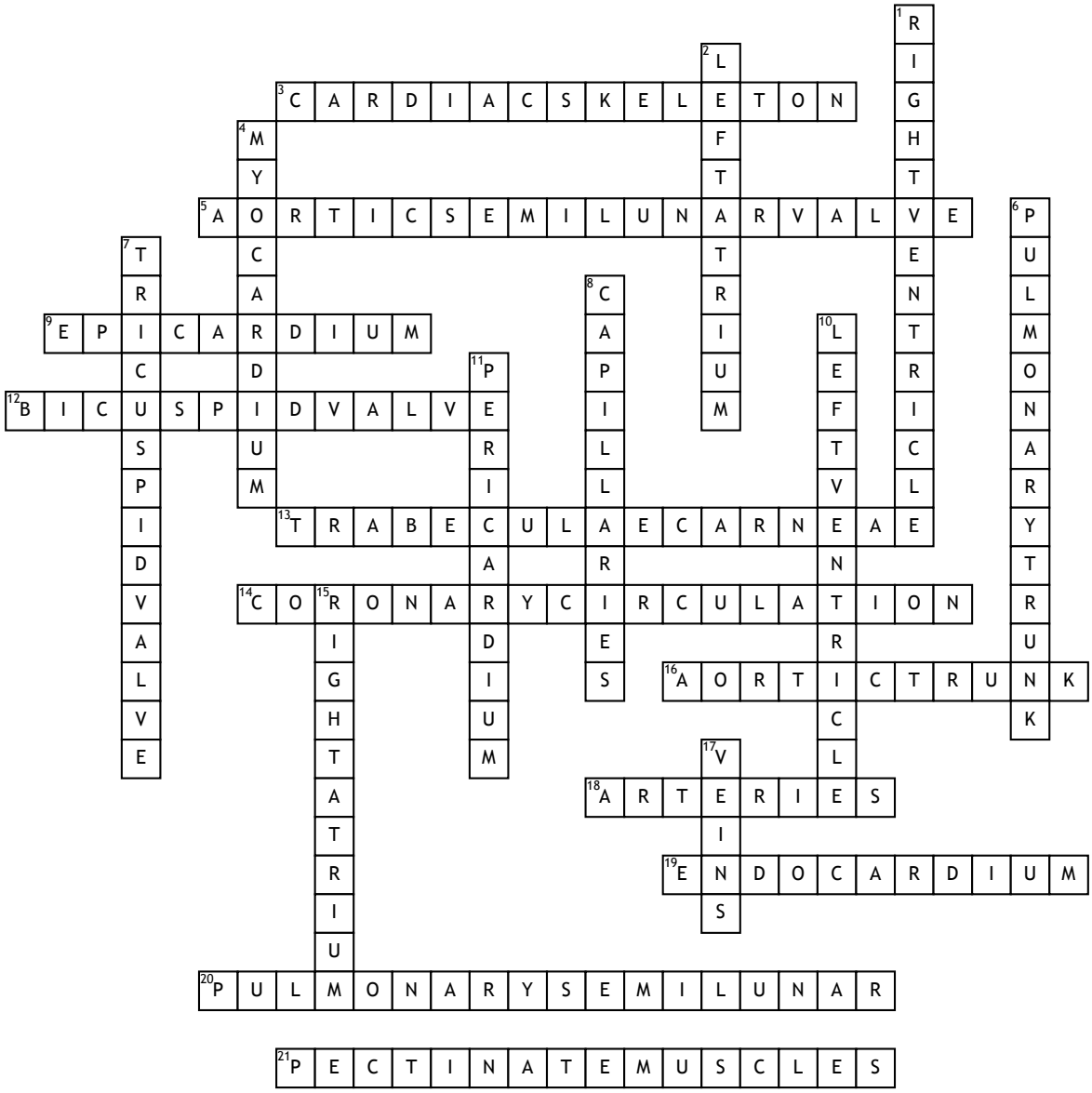
The Heart and Coronary Circulation



Across

3. Dense network of connective tissue fiber that reinforces myocardium and anchors cardiac muscle fibers
5. The left ventricle pumps blood through this valve into the aortic trunk
9. Outer layer of the heart that is continuous with the pericardium
12. Two-cusped valve between left atrium and ventricle
13. The thicker myocardium of the ventricles that exherts a greater force
14. Functional blood supply of the heart
16. Large branching vessel that is the beginning of systemic circulation
18. Vessels that carry blood away from heart
19. Glistening white sheet of endothelium that lines the inside of heart chambers, 3rd layer of heart
20. Blood flows through the _____ valve into the pulmonary trunk.
21. The thinner myocardium of the atria has bundles of muscles called _____.

Down

1. Lower chamber of heart that forces blood into pulmonary circulation
2. Blood returning from the lungs flows into this chamber
4. Forms the bulk of the heart and is composed of mostly cardiac muscle
6. This vessel branches to send blood to both lungs
7. AV valve that separates right atrium and right ventricle
8. small vessels in which blood and tissue cells exchange oxygen and carbon dioxide
10. Left chamber that pumps blood into systemic circulation
11. Double walled sac that encloses the heart
15. Chamber of heart that deoxygenated blood from systemic circulation enters
17. Vessels that carry blood back to the heart