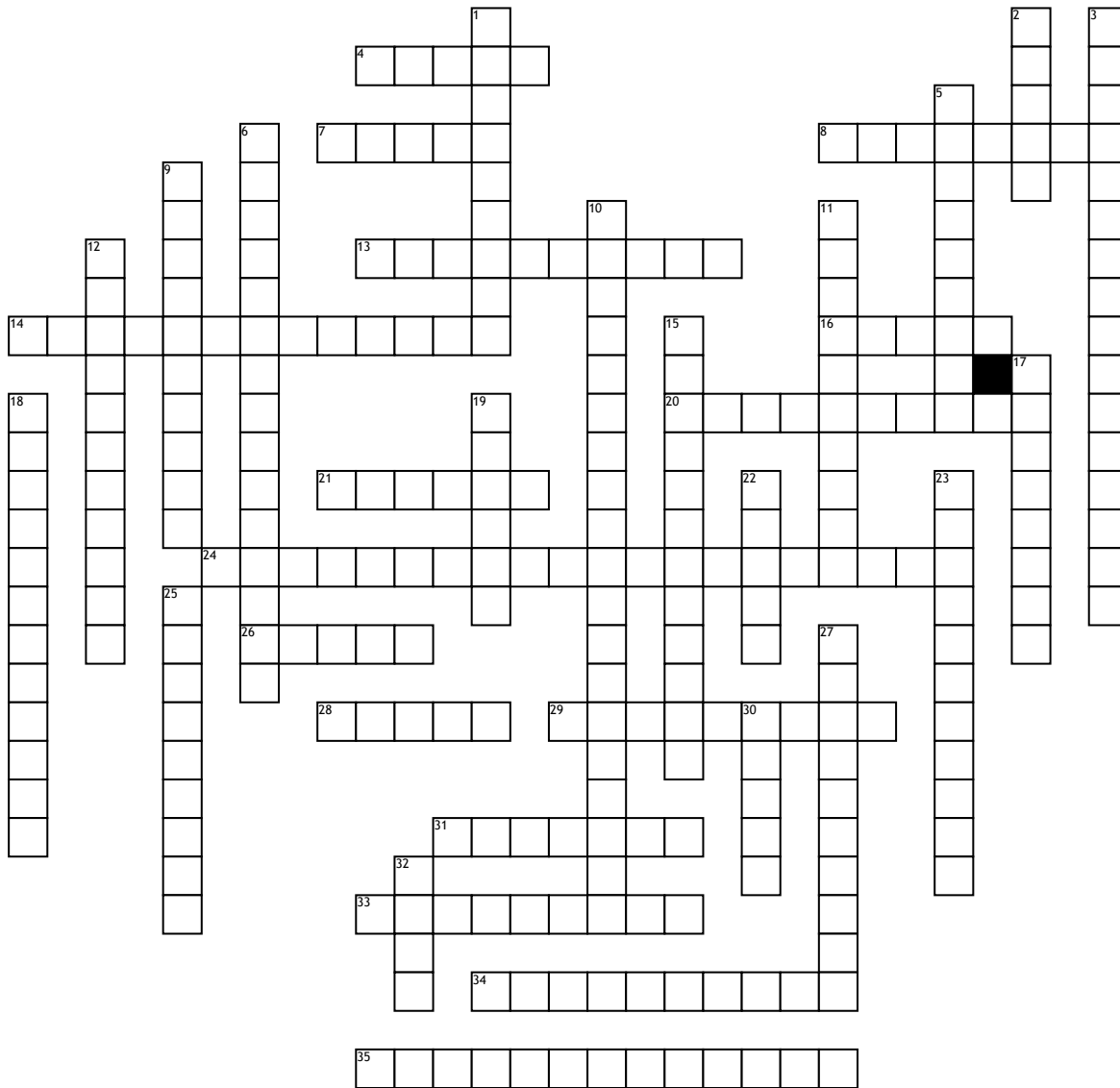


Name: \_\_\_\_\_ Date: \_\_\_\_\_ Period: \_\_\_\_\_

# Muscles and Muscle Tissue



## Across

4. a pale band across a striated muscle fiber that consists of actin  
7. appears as a lighter band in the middle of the dark A band at the centre of a sarcomere  
8. a protein of muscle that together with tropomyosin forms a regulatory protein complex controlling the interaction of actin and myosin  
13. sheath of connective tissue surrounding a bundle of muscle fibers  
14. refers to the condition in which muscles of the body remain semi-contracted for an extended period  
16. a protein found in microfilaments  
20. the cell membrane of a striated muscle fiber cell  
21. protein found in muscle tissue as a thick filament  
24. A muscular contraction in which the length of the muscle does not change  
26. The operation of most skeletal muscles involves leverage

28. responsible for the passive elasticity of muscle  
29. the repeating unit between two Z lines  
31. a muscle that moves in one direction  
33. a motor neuron and the skeletal muscle fibers innervated by that motor neuron's axonal terminals  
34. connective tissue within the muscle  
35. the decline in ability of a muscle to generate force

## Down

1. the point of attachment in a muscle where more movement occurs  
2. any of the dark thin bands across a striated muscle fiber  
3. extensions of the cell membrane that penetrate into the centre of skeletal and cardiac muscle cells  
5. fibrous tissue surrounding the cell  
6. controlled by an individual's will  
9. the continuous and passive partial contraction of the muscles

10. maintain constant tension in the muscle as the muscle changes length  
11. a muscle that contracts while another relaxes  
12. multinucleate cells that make up skeletal muscles  
15. a single contraction resulting from a threshold stimulus  
17. a bundle of structures  
18. the filaments of myofibrils, constructed from proteins, principally myosin or actin  
19. the attachment site that doesn't move during contraction  
22. the striated region of a sarcomere  
23. a movement of a muscle that causes it to become tight  
25. an iron- and oxygen-binding protein found in the muscle tissue  
27. the cytoplasm of a myocyte  
30. is in the center of the A band  
32. is closer to the fulcrum of a lever