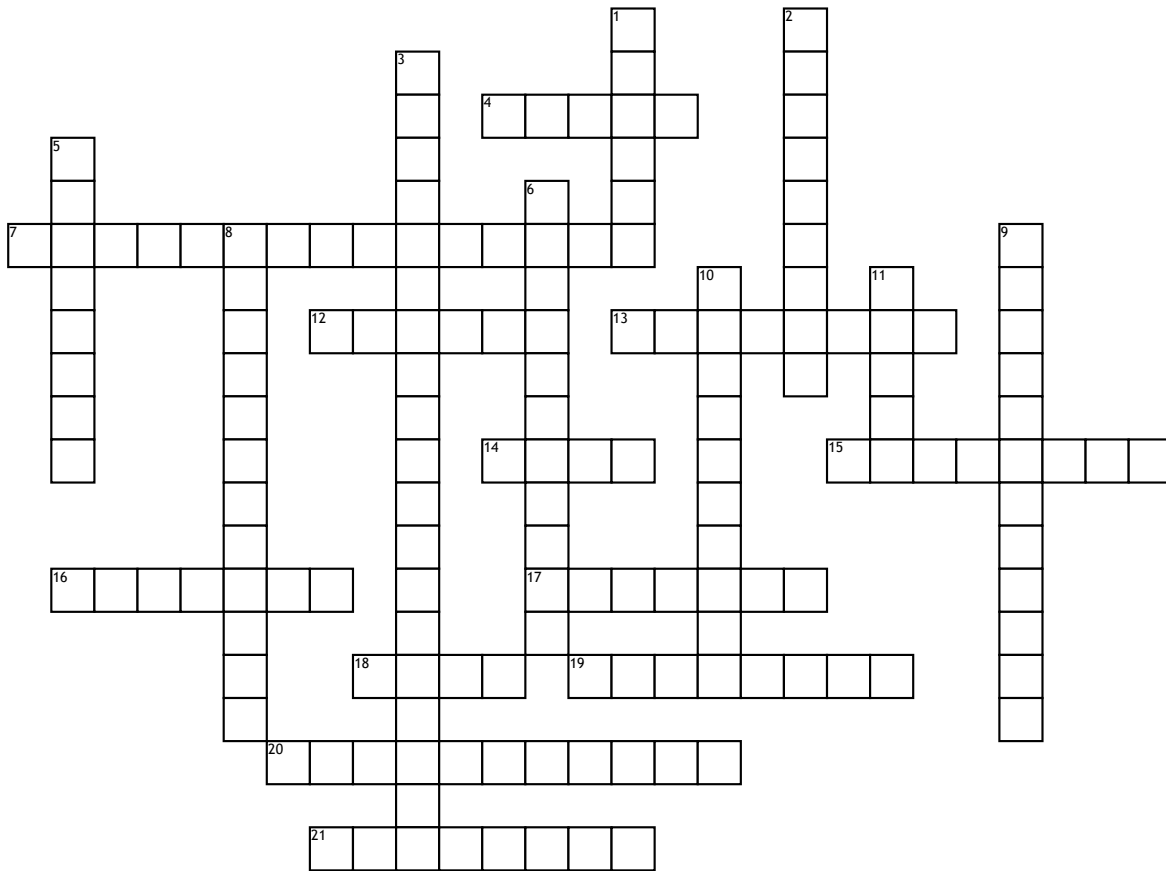


# Foundations of Physical Education



## Across

4. amount of work accomplished in one unit of time  
 7. angle that is rotated in a given unit of time  
 12. twisting, turning, or rotary force applied to the production of angular acceleration  
 13. force that occurs when surfaces come in contact with each other  
 14. force that is applied to a body through a distance and in the direction of the force  
 15. change in the speed or direction of a body per unit of time  
 16. the resistance of any physical object to any change in its state of motion

17. force that accelerates all objects vertically toward the center of the earth  
 18. amount of matter possessed by an object  
 19. ratio of force to the area over which the force is applied  
 20. a state in which opposing forces or influences are balanced  
 21. study of forces that act on a system, such as gravity and muscles

## Down

1. capacity of a body to perform work  
 2. a state in which opposing forces or influences are balanced  
 3. change in angular velocity for a given unit of time  
 5. the study of mechanical factors that relate to systems in motion

6. the scientific study of human movement  
 8. change in velocity  
 9. focuses on the application of the scientific principles of mechanics to understand movements and actions of human bodies and sport  
 10. study of space and time factors in motion, such as velocity and acceleration  
 11. any action that changes or tends to change the motion of an object; described in terms of magnitude and direction