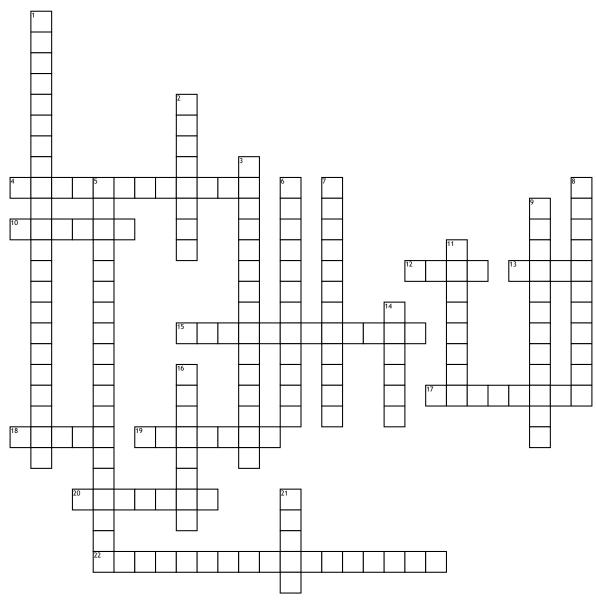
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## **Biomechanics**



## **Across**

- **4.** Movement in a straight line and from one point to another
- **10.** is the property that must be transferred to an object in order to perform work
- **12.** there is a displacement of the point of application in the direction of the force
- **13.** body of matter with no definite shape
- 15. increase of speed
- **17.** the time rate of change of position of a body in a specified direction
- **18.** is any interaction that, when unopposed, will change the motion of an object.
- **19.** 1.the force that attracts a body toward the center of the earth

- **20.** Study of factors relating to nonmoving systems
- **22.** The second law states that the rate of change of momentum of a body is directly proportional to the force applied, and this change in momentum takes place in the direction of the applied force.

## **Down**

- 1. When one body exerts a force on a second body, the second body simultaneously exerts a force equal in magnitude and opposite in direction on the first body.
- **2.** is the force resisting the relative motion of solid surfaces
- **3.** applies to objects that move along a circular path in repect to time
- **5.** is the rate of change of angular velocity

- **6.** an object either remains at rest or continues to move at a constant velocity, unless acted upon by a force
- **7.** The application of the principles of mechanical physics
- 8. study of human movement
- **9.** Movement of a body around a center of rotation the axis.
- 11. is the force applied perpendicular to the surface of an object per unit area over which that force is distributed
- 14. is rotational force
- **16.** Study of mechanical factors that relate to systems in motion
- **21.** the rate at which work is performed or energy is converted in one unit of time