SPORTS BIOMECHANICS &

Biomechanical Terms

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Biomechanical Terms

- Velocity Speed and direction of the body
- Acceleration Change in velocity involving the speed or direction
- Angular velocity Angle that is rotated in a given unit of time
- Angular acceleration Change of angular velocity for a unit of time

Biomechanical Terms

- Mass Amount of matter possessed by an object
- Force Any action that changes or tends to change the motion of an object
- Pressure Ratio of force to the area over which force is applied
- Gravity Natural force that pulls all objects toward the center of the earth
- Center of gravity

Biomechanical Terms

- Friction Force that occurs when surfaces come in contact and results from the sliding of one surface on the other
- Work Force that is applied to a body through a distance and in direction of the force
- Power Amount of work accomplished in one unit of time
- Energy Capacity of the body to perform work
- Kinetic energy
 Potential energy
 Torque
- Twisting, turning, or rotary force related to the production of angular acceleration