

1. <b>acceleration</b>	the time rate of change of velocity; can be a speeding up, slowing down and/or changing of direction	22. <b>instantaneous velocity</b>	the velocity at an instant of time; found by taking the average velocity over an extremely small time interval; it is equal to the slope of the tangent at the point on a displacement-time graph
2. <b>air resistance</b>	friction caused by movement of bodies through the air	23. <b>joule</b>	the unit of energy (or work); the product of a force of one newton acting through a distance of one metre
3. <b>average speed</b>	defined as distance over time	24. <b>kilogram</b>	the SI unit of mass
4. <b>average velocity</b>	defined as displacement over time		
5. <b>bearings</b>	angles measured clockwise from north; used in vector analysis		
6. <b>centripetal acceleration</b>	the acceleration directed towards the centre of a circle about which an object is moving		
7. <b>centripetal force</b>	the force directed towards the centre of a circle necessary for an object to follow a circular path		
8. <b>collision</b>	when two or more objects exert forces on each other, generally over a short time interval		
9. <b>component</b>	one of the numerous vectors that can be added vectorially to yield a resultant vector		
10. <b>displacement</b>	change in position in a given direction		
11. <b>dynamics</b>	the study of the causes of motion		
12. <b>elastic collision</b>	a collision in which kinetic energy is conserved		
13. <b>energy</b>	the capacity for doing work		
14. <b>equilibrium</b>	the state in which a body does not undergo any changes in its motion; the resultant force is zero		
15. <b>force</b>	that which changes the motion or shape of a body		
16. <b>friction</b>	a force that always opposes motion; arises as a result of contact between different materials		
17. <b>gravitational field</b>	that region of space in which a mass experiences a force of attraction from other masses		
18. <b>gravity</b>	the force of gravitation on an object		
19. <b>impulse</b>	the product of force and time; equals the change in momentum		
20. <b>inelastic collision</b>	a collision in which kinetic energy is not conserved; it is conserved into other forms such as heat and sound		
21. <b>inertia</b>	the property of matter that causes it to resist changes in motion		