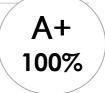
Quizlet

NAME

23 Multiple choice questions

- 1. a fundamental physical quantity; a measure of the amount of matter or inertia
 - a. motion
 - b. CORRECT: mass
 - c. metre
 - d. work
- 2. the product of mass and velocity of a moving body
 - a. metre
 - b. CORRECT: momentum
 - c. motion
 - d. Newton
- 3. energy can neither be created nor destroyed but only changed in form
 - a. CORRECT: law of conservation of energy
 - b. law of conservation of momentum
 - c. potential energy
 - d. kinetic energy
- 4. the force of gravity on an object
 - a. metre
 - b. CORRECT: weight
 - c. Newton
 - d. vector
- 5. the product of force and displacement parallel to the force
 - a. Newton
 - b. CORRECT: work
 - c. mass
 - d. metre



- 6. that single force which would have the same effect as two or more forces applied to the same point
 - a. metre
 - b. vector
 - c. resultant
 - d. CORRECT: resultant force
- 7. the breaking down of a vector into its components
 - a. resultant
 - b. CORRECT: resolution of vectors
 - c. resultant force
 - d. vector
- 8. the study of motion without examining the causes; the description of motion
 - a. Newton
 - b. motion
 - c. CORRECT: kinematics
 - d. mass
- 9. forces in ropes, strings, wires, cables, etc.
 - a. Newton
 - b. motion
 - c. vector
 - d. CORRECT: tension
- 10. if one body exerts a force on a second body, the second body exerts the same force back on the first body; to every action there is an equal and opposite reaction
 - a. Newton's Second Law
 - b. CORRECT: Newton's Third Law
 - c. Newton
 - d. Newton's First Law

- 11. the SI unit of force; it is that force which will accelerate a mass of 1 kg at 1m.s
 - a. CORRECT: Newton
 - b. tension
 - c. motion
 - d. vector
- 12. a fundamental unit of length; it is equal to the distance travelled by light in a vacuum in the fraction 1/299,792,458 of a second
 - a. mass
 - b. motion
 - c. work
 - d. CORRECT: metre
- 13. change in position relative to an observer
 - a. tension
 - b. CORRECT: motion
 - c. metre
 - d. Newton
- 14. that single vector which has the same effect as a number of other vectors; the vector sum of a number of vectors
 - a. resultant force
 - b. vector
 - c. Newton
 - d. CORRECT: resultant
- 15. in the absence of external forces, the sum of the momenta before the collision is equal to the sum of the momenta after the collision
 - a. resolution of vectors
 - b. law of conservation of energy
 - c. CORRECT: law of conservation of momentum
 - d. momentum

- 16. a quantity that needs both a size and a direction to describe it fully and which obeys special laws of addition
 - a. metre
 - b. Newton
 - c. CORRECT: vector
 - d. tension

17. a quantity that can be represented completely, purely by a number

- a. vector
- b. mass
- c. speed
- d. CORRECT: scalar
- 18. the acceleration of an object is directly proportional to the resultant force acting on it and inversely proportional to its mass
 - a. Newton
 - b. Newton's First Law
 - c. Newton's Third Law
 - d. CORRECT: Newton's Second Law
- 19. the time rate of change of displacement
 - a. CORRECT: velocity
 - b. weight
 - c. vector
 - d. tension
- 20. time rate of change of distance
 - a. mass
 - b. scalar
 - c. CORRECT: speed
 - d. metre

- 21. energy of motion
 - a. kinematics
 - b. CORRECT: kinetic energy
 - c. motion
 - d. potential energy
- 22. a body will remain at rest or travel with constant velocity unless acted upon by an unbalanced force
 - a. Newton
 - b. Newton's Third Law
 - c. Newton's Second Law
 - d. CORRECT: Newton's First Law
- 23. energy due to position or configuration; stored energy
 - a. CORRECT: potential energy
 - b. tension
 - c. kinetic energy
 - d. motion