

Name: _____

Date: _____

Newton's Law of Motion

Across

3. The state in which one object's distance from another is changing
4. Forces that produce a nonzero net force, which changes an objects motion
5. Equal forces acting on an object in opposite directions
10. How you can use Newtons Second Law to find force
11. The force that one surface exerts on another when the two surfaces rub against each other
12. Any object at rest or in motion stays that way until a force is acted on it
14. Energy that an object has due to its motion
16. The force that pulls objects toward each other
17. The product of an objects mass and velocity
18. The definition includes push of pull
19. The overall force on an object when all the individual forces acting on it are added together
20. how far an object moves

Down

1. The amount of inertia depends on this
2. A push or a pull on an object by another that is touching it
6. Speed in a given direction
7. the property of relative size or extent
8. The tendency of an object to resist any change in its motion
9. The rate at which velocity changes
13. The distance an object travels per unit of time
15. A unit of measure that equals the force required to accelerate 1 kilogram of mass at 1 meter per second per second

