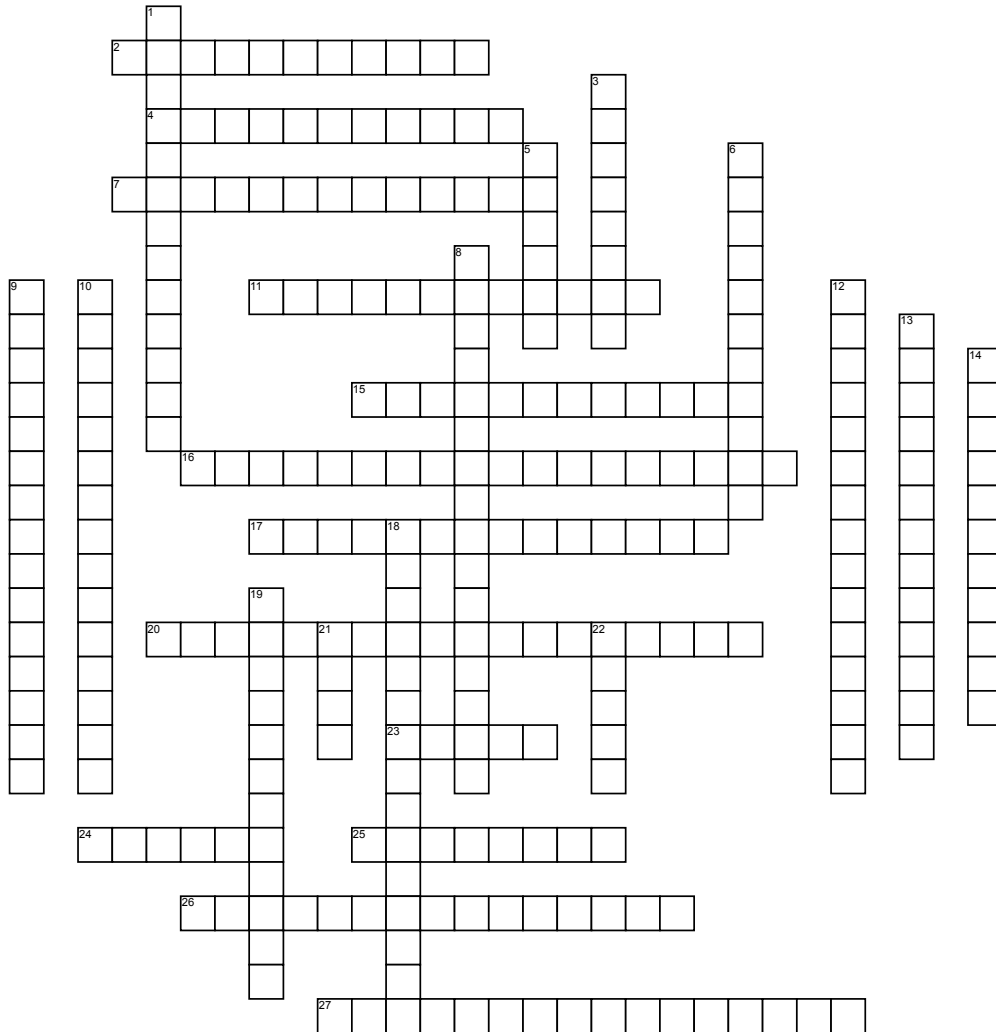


Motion & Force



Across

- 2. the support force exerted upon an object which is in contact with another stable object
- 4. when an object is pushed together, then when pressure is taken away it pops back to its normal self
- 7. The force exerted between magnetic poles, producing magnetization
- 11. Force of a string or rope holding up an object
- 15. a force that is applied to an object by a person or another object
- 16. The actual speed an object has at any moment
- 17. When two equal forces are applied to an object in opposite directions and the object does not move or the object's speed does not change.
- 20. the force of gravity on an object. Measured at 9.8 N on Earth

- 23. How quickly something moves. Also known as velocity
- 24. unit of force used in the US
- 25. how far something goes
- 26. a diagram that shows all of the forces acting on an object
- 27. Force equals mass times acceleration

Down

- 1. Speed stays the same
- 3. the sum of all forces on an object
- 5. Most commonly used unit of force
- 6. shows a car's instantaneous speed
- 8. When two unequal forces are applied to an object in opposite directions and the object does move
- 9. a force that opposes the motion of an object

- 10. an object at rest will stay at rest and an object in motion will stay in motion unless acted upon by an unbalanced force
- 12. The attractive or repulsive interaction between any two charged objects
- 13. Friction between an object and the air
- 14. When the net forces on an object are equal to zero
- 18. For every action there is an equal and opposite reaction
- 19. Calculated by dividing the total distance of a trip by the time it takes to make the trip
- 21. how long it takes for something to reach its destination
- 22. Any action that can change the motion of an object

Word Bank

- | | | | | |
|--------------------|---------------|-----------------|-----------------|------------------|
| Pounds | Speed | FrictionalForce | Newton | NewtonsFirstLaw |
| GravitationalForce | TensionForce | FreeBodyDiagram | Equilibrium | NewtonsSecondLaw |
| InstantaneousSpeed | MagneticForce | ConstantSpeed | BalancedForces | Time |
| UnbalancedForces | SpringForce | Speedometer | AverageSpeed | AppliedForce |
| NormalForce | Distance | NetForce | NewtonsThirdLaw | ElectricalForce |
| Force | AirResistance | | | |