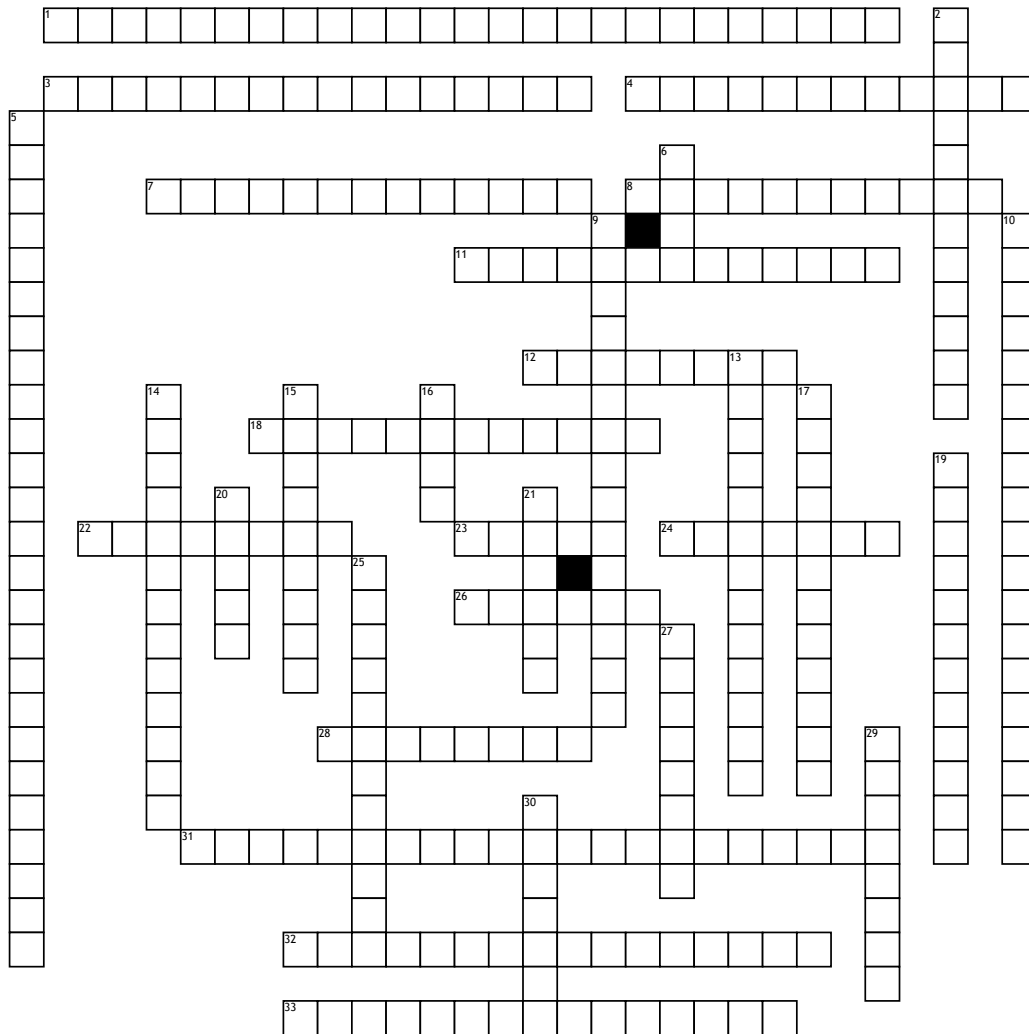


Force, Motion & Energy



Across

1. the total energy of an isolated system remains constant
3. the sum of potential and kinetic energy
4. lacking all friction
7. when the speed remains the same
8. a creation of light that can be seen
11. the object stays still when forces acted on it are equal
12. a speed in a given direction
18. how far out of place a object is
22. the sum of all forces acting on an object
23. the rate in which a object is able to move
24. a force that attract the object to the center of earth
26. the action or process of moving

Word Bank

gravitational constant
law of inertia
direction
net force
light energy
law of action-reaction
force

speed
law of force and acceleration
average speed
mechanical energy
newton
inertia
thermal energy

acceleration
velocity
mass
balanced force
constant speed
kinetic energy
frictionless

28. pieces of the earths crust that are slowly moving
 31. constant that appears in the equation of newtons law of graviton
 32. it does not change in speed nor direction
 33. energy held by an object
- ## Down
2. distance\time
 5. newtons second law
 6. a measurable unit using hours, minutes and seconds
 9. can change a the direction and motion of a object
 10. newtons third law
 13. heat
 14. object in motion

15. a path along which someone or something moves
16. the amount of matter in a object
17. work
19. newtons first law
20. a push or pull
21. the SI unit of force
25. a change in velocity
27. the action of one object rubbing against another
29. how far a object moves
30. a object stays at rest or continues to move in a straight line unless a force is acted upon it