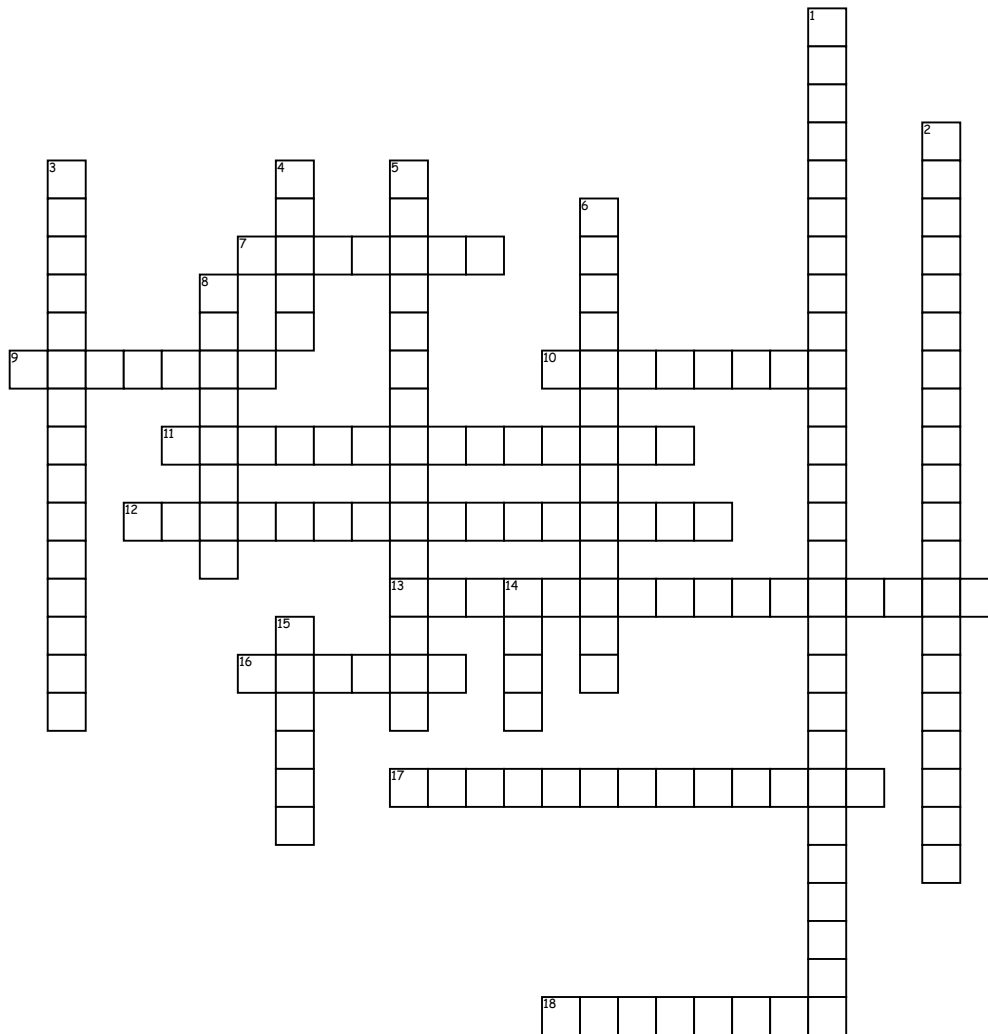


Force and Motion



Across

- 7. The attraction between two objects because of their masses
- 9. The tendency of an object to resist a change in its motion
- 10. The overall force acting on an object after all the forces are combined
- 11. A friction force that acts on objects that are not moving
- 12. The curved path of an object in free fall after it is given an initial forward velocity
- 13. The constant velocity of a falling object when the force of air resistance equals the force of gravity
- 16. The SI unit for force, equal to the force that causes a 1kg mass to accelerate at a rate of 1m per second squared

- 17. A friction force that opposes the motion of an object through a fluid
- 18. The product of an object's mass and its velocity

Down

- 1. Law stating that the total momentum of a system does not change if the net force acts on the system
- 2. A force associated with charged particles, which has two aspects, electric force and magnetic force
- 3. A friction force that acts on rolling objects, caused by the change in shape at the point of the rolling contact
- 4. A push or a pull that acts on an object

- 5. The frictional force which opposes the actual relative sliding motion between two contact surfaces is called sliding or kinetic friction
- 6. Fluid acting on an object moving through air
- 8. A force that opposes the motion of objects that touch as they move past each other
- 14. A measure of the inertia of an object, which depends on the amount of matter the object contains
- 15. The force of gravity acting on an object

Word Bank

Projectile motion
Inertia
Weight
Newton
Friction
Air resistance

Electromagnetic force
Static friction
Net force
Rolling friction
Momentum
Law of conservation of momentum

Force
Fluid friction
Sliding friction
Mass
Gravity
Terminal velocity