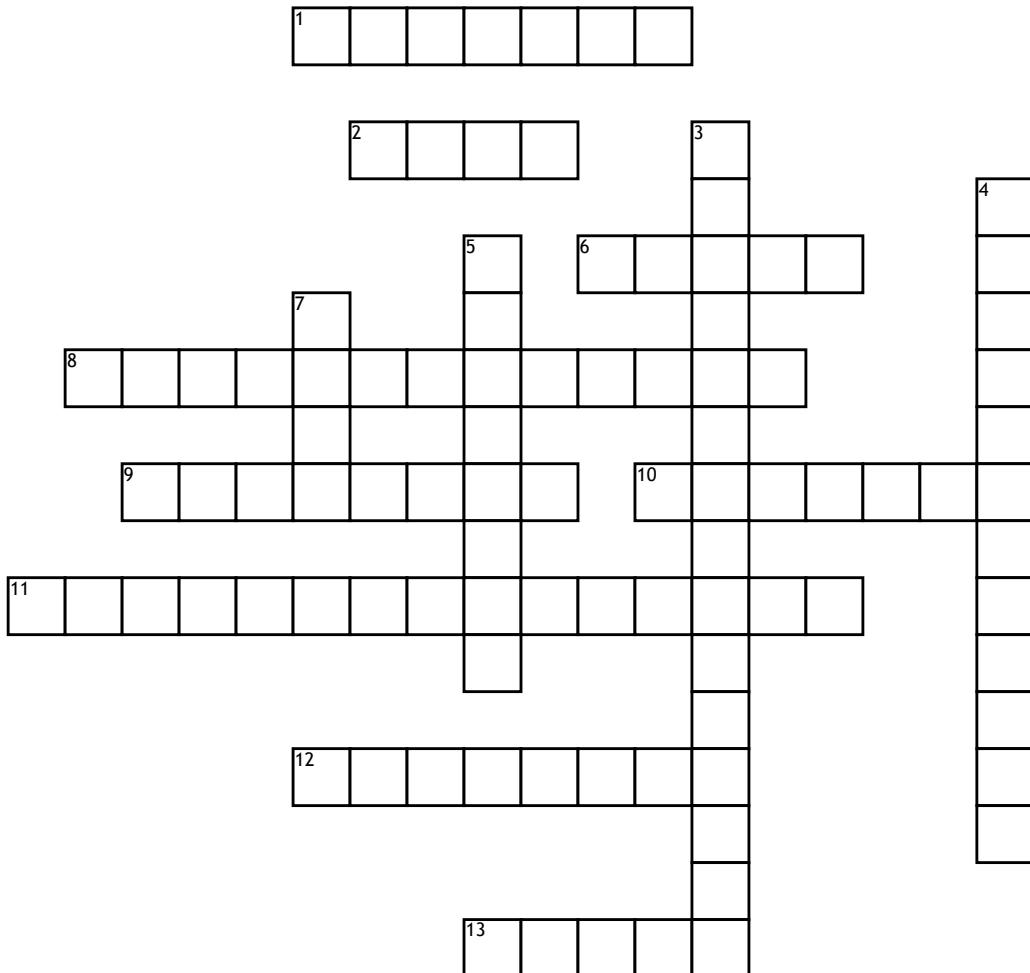


Force Vocabulary



Across

- the force that attracts a body toward the center of the earth, or toward any other physical body having mass.
- the quantity of matter which a body contains, as measured by its acceleration under a given force or by the force exerted on it by a gravitational field.
- an influence tending to change the motion of a body or produce motion or stress in a stationary body. The magnitude of such an influence is often calculated by multiplying the mass of the body by its acceleration.
- A set of forces on an object that cancel one another out so that there is no overall force on that object; the combined (net) force is the same as zero force; balanced forces will not cause a change in the motion of an object

- an amount of space between two things or people.
- a tendency to do nothing or to remain unchanged.
- A stationary object remains stationary if the sum of the forces acting upon it - resultant force - is zero.
- the resistance that one surface or object encounters when moving over another.
- the rate at which someone or something is able to move or operate.

Down

- A set of forces exerted on an object that changes the motion of that object; the combined force has size and direction. Unbalanced forces are needed to make an object start moving, speed up, slow down, or change direction.
- the component of an electric field due to free separated charges, regardless of any polarizing effects.
- The speed of something in a given direction.
- Rest is a state in physics that refers to an object being stationary relative to a particular frame of reference or another object; when the position of a body with respect to its surroundings does not change with time.

Word Bank

speed
force
Force Balanced
Distance

Rest
Friction
mass

inertia
force unbalanced
Displacement

Velocity
Gravity
Force stationary