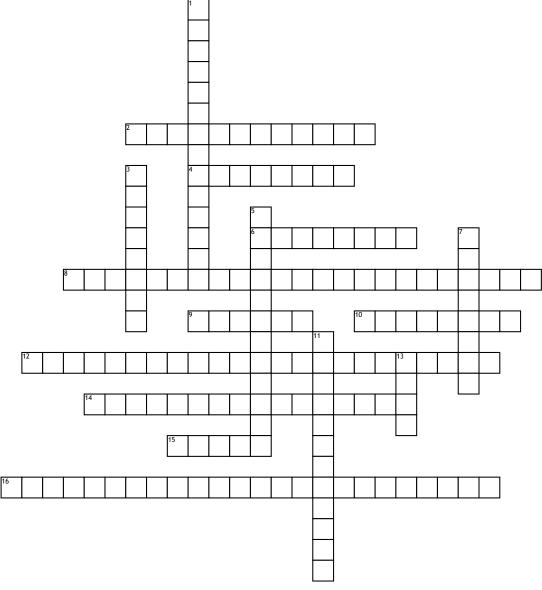
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## Forces and motion vocabulary



## **Across**

- 2. The rate at which velocity changes over time; it accelerates if speed and direction change
- **4.** A force that opposes motion between two surfaces that are in contact
- **6.** The speed of an object in particular direction
- **8.** Every action there is an equal and opposite reaction, meaaning every interaction there is a pair of forces acting on the Z interacting objects
- **9.** Measure of gravitational force extended on an object and its value can change with location of an object and universe

- **10.** The combination of all forces acting on an object
- **12.** An object at rest stays motion stays with the same speed and direction unless acted upon by an unbalanced force
- **14.** When the net force on an object is not ON. They produce a change in motion and causes non moving objects to move
- **15.** The distance traveled divided by the time interval distance which there's motion
- **16.** The acceleration of an object A's produced by net force is directly proportional to the magnitude or net force

## Down

- 1. When fires of an object produce a net force of ON
- 3. The quantity of motion of a moving body, mass and velocity
- **5.** Slope of a line and total distance by total time
- 7. The tendency of an object to resist motion if it's moving and to resist a change in speed or direction until an outside force acts on it
- **11.** A particle attracts every other particle in the universe using a force directly proportional to the products mass
- **13.** Property of matter that measures its resistance to acceleration