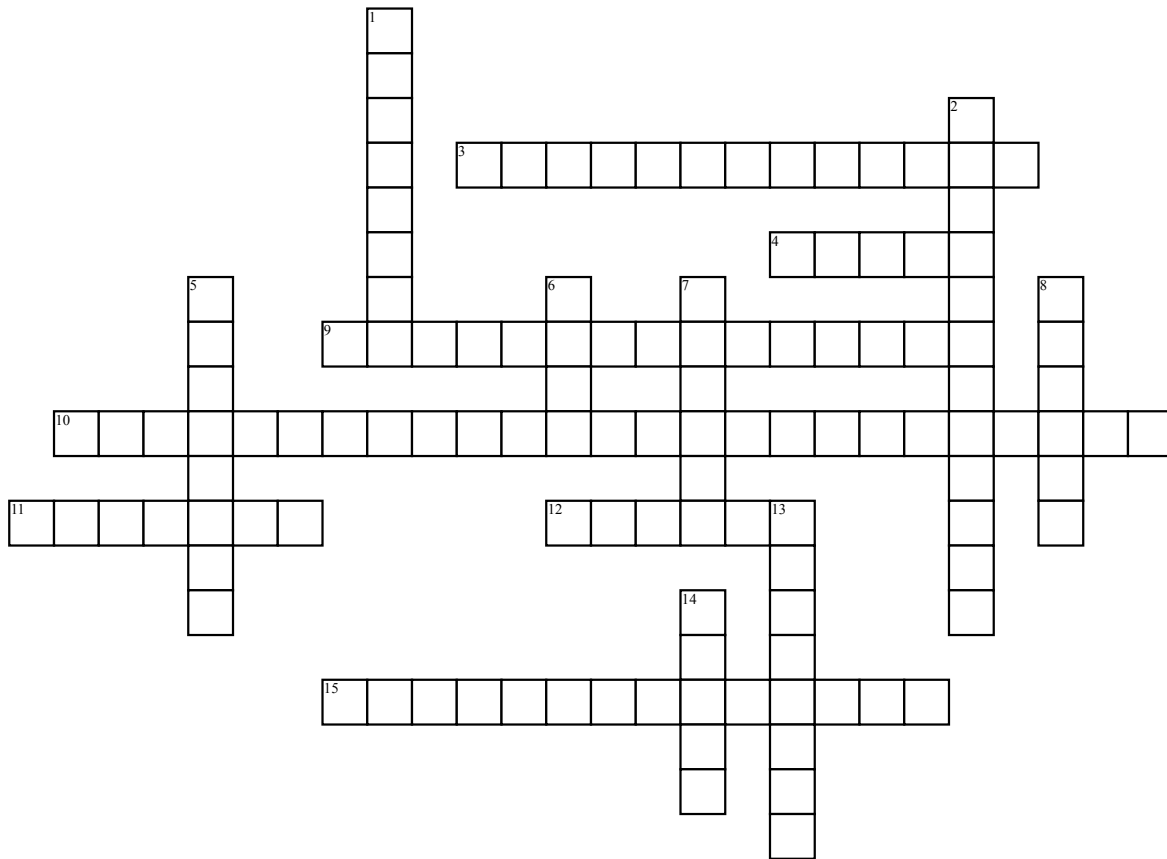


Matter in Motion Vocabulary



Across

- 3. forces on an object that cause the net force to be zero
- 4. a push or pull; all have both size and direction
- 9. forces on an object that cause the net force to be other than zero
- 10. the law that states that all objects in the universe attract each other through gravitational force
- 11. a force of attraction between objects that is due to their masses

- 12. the SI unit of force
- 15. an object that appears to stay in place in relation to an object being observed for motion

Down

- 1. a force that opposes motion between two surfaces that are touching
- 2. the rate at which velocity changes
- 5. the speed of an object in a particular direction
- 6. the amount of matter that something is made of

- 7. a measure of the gravitational force exerted on an object, usually by the Earth
- 8. an object's change in position over time when compared with reference point
- 13. the force that results from combining all the forces exerted on an object
- 14. the rate at which an object moves