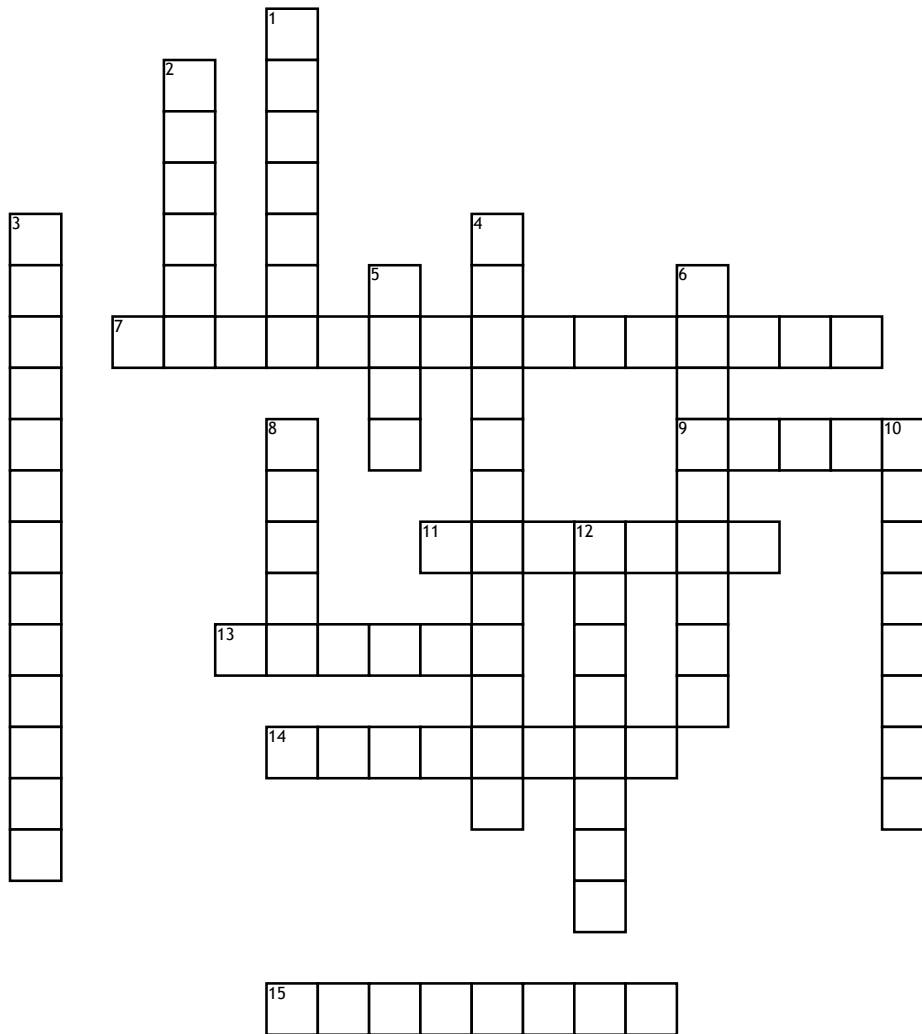


Force and Motion



Across

- 7. a change in motion, speed or direction; object will move in the direction of the stronger force
- 9. distance divided by time
- 11. the force that pulls down
- 13. is a measure of gravitational force between earth and an object; may vary depending on gravity.

- 14. The sum of all forces acting on an object
- 15. a force opposes the motion of another object; making the object slow down, or giving it traction to get moving

Down

- 1. an object's resistance to change in motion; the more mass an object has, the more inertia must be overcome to move it.
- 2. change in position

- 3. no change in motion, speed or direction
- 4. change in speed or direction
- 5. the measure of the amount of matter in an object
- 6. a comparison of an object's location on a map to other things on the map
- 8. push or pull
- 10. The length of a path between two points
- 12. speed in a given direction

Word Bank

- | | | | |
|-----------------|----------|---------------|-----------|
| friction | force | acceleration | gravity |
| velocity | mass | motion | speed |
| unbalancedforce | weight | balancedforce | poisition |
| distance | netforce | inertia | |