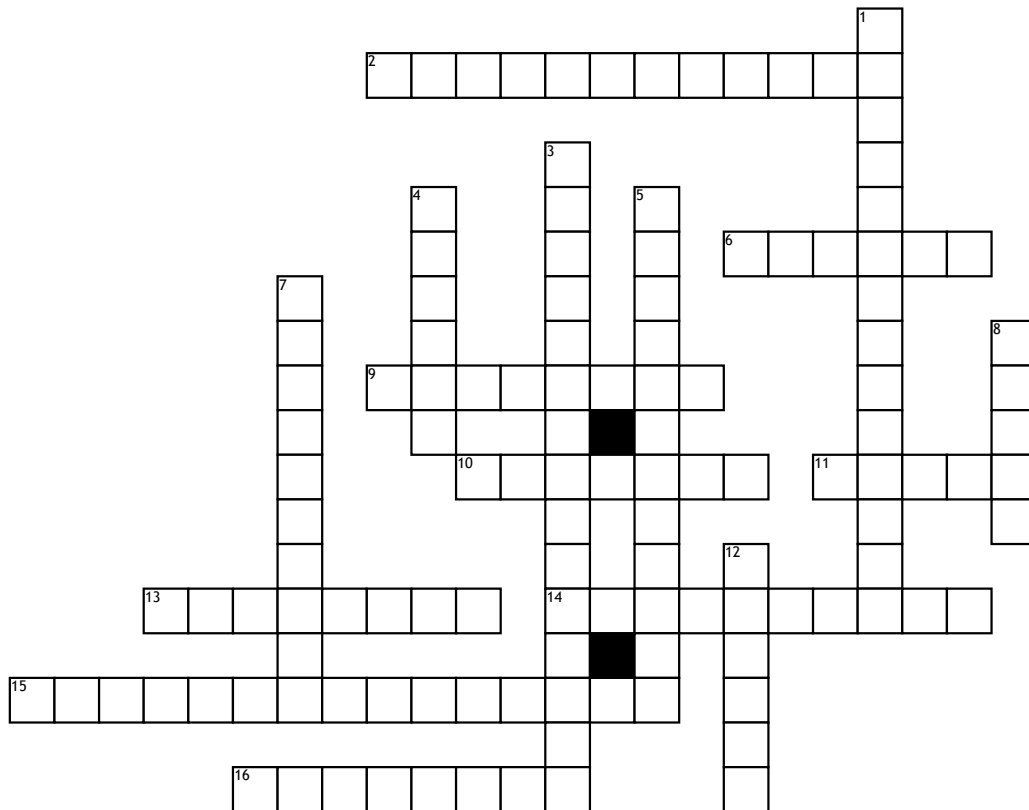


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Across

2. A force which requires two objects to touch to have an effect
 6. The unit for force
 9. The state of forces which act on an object to give a resultant force of zero
 10. The force that occurs between any two objects with mass
 11. The unit for energy
 13. The force between two surfaces that resists motion
 14. The space around an object within which a non-contact force has an effect

15. A diagram showing all the forces acting upon an object, their magnitudes, and their directions
 16. A measure of the energy transferred when a force acts through a distance

Down

1. The total force that comes from two or more forces acting upon a single object
 3. A force that can have an effect from a distance
 4. A quantity that has magnitude but not direction (e.g. mass, distance, and energy)

5. A diagram used to work out the component or resultant forces, in which the lengths of the arrows represent the magnitudes of the forces
 7. The state of forces which act on an object to give a non-zero resultant force
 8. The rate of energy transfer
 12. A quantity that has both magnitude and direction (e.g. force, velocity, and displacement)

Word Bank

Power

Work done

Scalar

Friction

Contact force

Joule

scale diagram

Unbalanced

Non-contact force

Newton

Balanced

resultant force

Gravity

Vector

Force field

Free body diagram