

Dynamics Crossword Puzzle

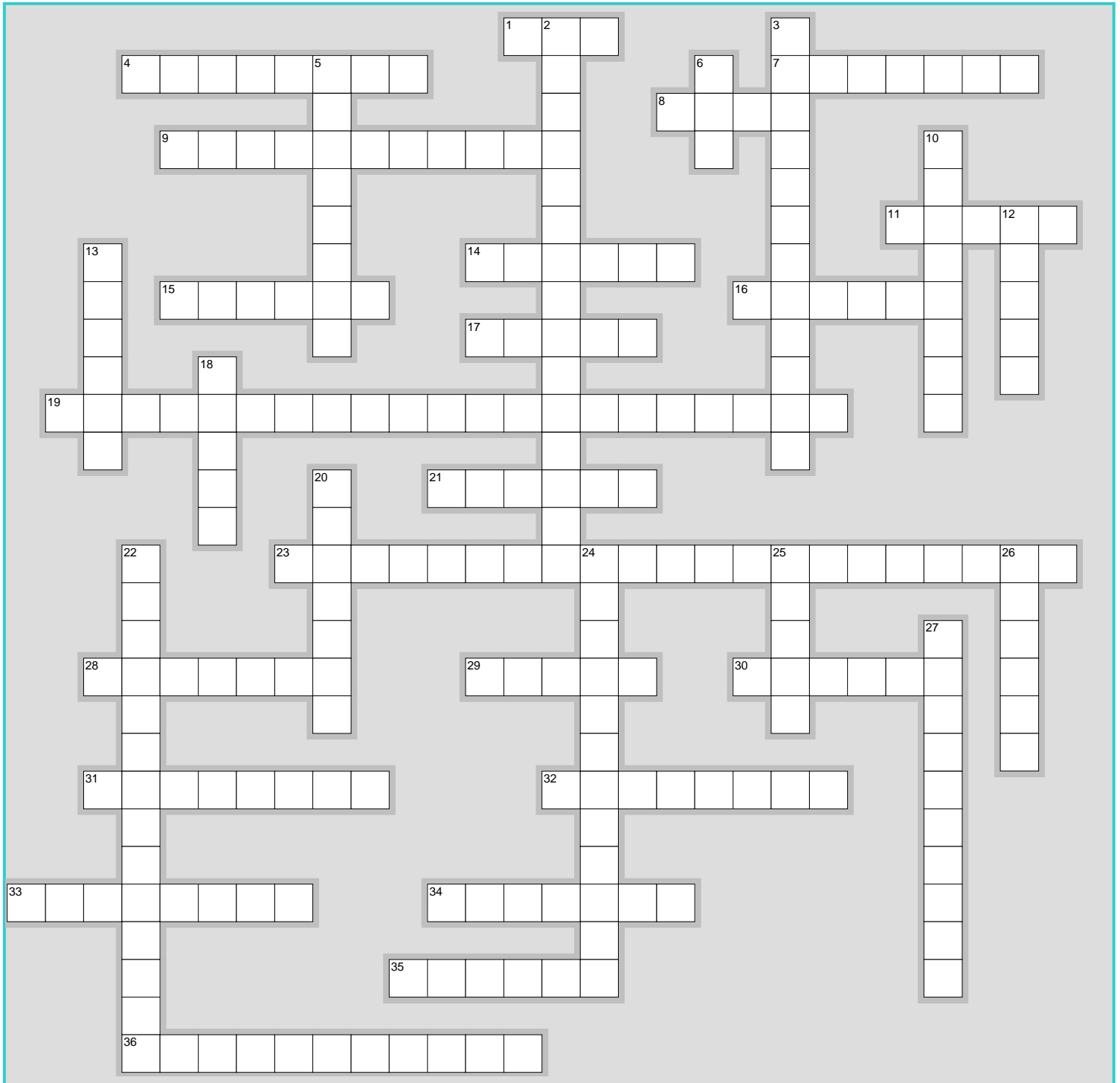
Across

- stands for metres, kilograms and seconds; the system of units preferred in physics
- the resulting force after all force vectors have been added
- a property of a body which resists change in its motion
- the quantity of matter contained in a body and a measure of inertia.
- a force that acts perpendicular to a surface and holds an object up against gravity
- a Greek letter representing a sum
- the law which states that the acceleration of an object is directly proportional to the net force acting on that object and inversely proportional to the mass of the object
- a quantity that has both an amount (magnitude) and direction
- the force of gravity acting on an object; equal to mg .
- term for experimental uncertainty in a measurement or result
- numerically equal to the force of gravitation, which acts between two 1 kg masses separated by a distance of 1 m. Its value is $6.67 \times 10^{-11} \text{ N}\cdot\text{m}^2/\text{kg}^2$
- to show, using logic and mathematics, how a conclusion follows logically from certain given facts and principles
- the term used for the ratio of frictional force divided by normal force
- a device used to measure mass
- equals the distance traveled in the time it takes to move
- the term used to describe a quantity that has no direction only an amount
- the rate of change of position (the slope of the tangent line on an position versus time graph)
- the motion of a body towards the earth when no other force except the force of gravity acts
- the fundamental unit of mass in the SI system
- a general term for the phenomenon of attraction between things having mass
- a unit of force defined as $\text{kg}\cdot\text{m}/\text{s}^2$
- a device used to measure the size of a force

Down

- the friction force between surfaces that are slipping past each other
- a vector quantity; it means change of position.
- force that is equal and opposite the action in Newton's Third Law
- a statement, usually mathematical, which describes some physical phenomena
- the general term for a force that resists the motion or resists an applied force
- fundamental SI unit of length
- fundamental SI unit of electric current
- a SI prefix meaning 10^{-6}
- a unit of measure that consists of combinations of fundamental units
- the term used when a number of forces act on a body, and the resultant force is zero
- the rate of change of velocity (the slope of the tangent line on a v-t graph).
- a push or pull which tends to change the state of motion of a body
- a line perpendicular to the surface of a boundary
- an object thrown into space either horizontally or at an angle and under the action of gravity

Dynamics Crossword Puzzle



Dynamics Crossword Key

