

## **What are Kinetic energy and its history?**

This is a term in physics subject, which means the amount of energy that has been created due to the motion of the object that is when it moves from here to there.

This can also be defined as the work that is needed to accelerate the body or the object from its original rest position till it's in the stated velocity and is producing energy.

When the speed is gained by the object, it will generate energy, and the number of energy levels will depend on the speed of the object, and the more the speed will be the energy produced.

Also, the same amount of work that the object takes in its motion stage will be required to slow them down and then bring them to a state of complete rest like they were before.

Kinetic energy can be called as any term concerning the systems Lagrangian, which includes the derivative in the time and that too while respecting the time itself.

In classical mechanics, the kinetic energy produced by a non-rotating object of the mass  $M$  will be traveling at the speed of  $V$ , and it can also be denoted as half of the  $MV$  square.

If you are checking it out in the relativistic mechanics, this is a good approximation only when  $V$  is much less than the speed of light, and it also follows the natural law.

The standard unit of Kinetic energy is measured and is also called Joule, while the English unit of Kinetic energy is called Foot pound by the people who are British or belong to older times.

The word Kinetics is taken from the Greek word kinesis which means motion, and also the dichotomy between the Kinetic energy and also Potential energy can be traced back to Aristotle's time.

The principle of classical mechanics was first developed by Leibniz and also Bernoulli, who were the ones that described Kinetic energy as a living force.

There was a person named Willem's Gravesande from the Netherlands who had then practiced this formula, and throughout his research and practice, he found out that it was true.

The terms Kinetic energy and also work were a concept of the 19th century, and back then, people did not know the correct use of these things.

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