

PHYSICS 1

STUDY GUIDE: ENERGY

STUDY GUIDE

TYPES OF ENERGY

Kinetic Energy and Rotational Kinetic Energy

- **Kinetic energy** is the energy of an object or system due to its motion. There are two types: translational kinetic energy and rotational kinetic energy. Both of these are types of **mechanical energy**.
- Kinetic energy is a **scalar quantity** (not a vector quantity) so it's always positive, it does not have a direction and it does not depend on the direction of the object's or system's velocity.
- **Translational kinetic energy** or **linear kinetic energy** (often just referred to as kinetic energy) is the energy of an object or system due to its linear motion and depends on its mass and linear speed.

Variables	SI Unit
K	kinetic energy J
m	mass kg
v	speed $\frac{m}{s}$

Kinetic energy

$$K = \frac{1}{2}mv^2$$

v



2 kg  3 m/s

$$K = \frac{1}{2}(2 \text{ kg})(3 \text{ m/s})^2$$

$$K = 9 \text{ J}$$

0.5 kg  24 m/s

$$K = \frac{1}{2}(0.5 \text{ kg})(24 \text{ m/s})^2$$

$$K = 144 \text{ J}$$

30 m/s

1500 kg



$$K = \frac{1}{2}(1500 \text{ kg})(30 \text{ m/s})^2$$

$$K = 675,000 \text{ J}$$

Physics Energy Study Guide

Joacim Rocklöv



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