

Physics: Energy Stores and Transfers

Key word	Definition
Energy stores	The capture of energy released at one time for use at a later time
Kinetic energy	The energy that an object has when it is moving
Elastic potential	The energy stored in a stretched or compressed object
Gravitational potential energy	The energy stored in an object which is above the ground
Chemical energy	The energy stored in an object that is released by a chemical reaction e.g. batteries or food
Electrical energy	The energy resulting from the flow of electric charge
Joule (J)	The unit of energy
Kilojoules (kJ)	1 kilojoule is equal to 1000 joules
Useful energy	The portion of final energy which is released for useful purpose
Wasted energy	The portion of final energy which is released which is not useful

Energy Stores

1. Thermal
2. Kinetic
3. Chemical
4. Gravitational Potential
5. Elastic potential energy



Chemical Energy Stored in A Cell

Electrical Energy



Light Energy

Thermal Energy

Useful Energy

Wasted Energy

The Law of conservation of energy

Energy cannot be created or destroyed only changed from one form to another.

