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Thermodynamics is the study of the relationship between heat (or energy) and

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work. In other words, thermodynamics looks at how we can put energy into a system (whether it is a machine or a molecule) and make it do work.

Introduction to Thermodynamics - Chemistry LibreTexts

Thermodynamics is the study of the energy, principally heat energy, that accompanies chemical or physical

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changes. Some chemical reactions release heat energy; they are called exothermic reactions, and they have a negative enthalpy change. Others absorb heat energy and are called endothermic reactions, and they have a positive enthalpy change.

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Introduction. A description of any thermodynamic system employs the four laws of thermodynamics that form an axiomatic basis. The first law specifies that energy can be exchanged between physical systems as heat and work. The second law defines the existence of a quantity called entropy, that describes the direction, thermodynamically,

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that a system can
evolve and quantifies
the state of order ...

Thermodynamics - Wikipedia

Thermodynamics is
often called the
science of en e r g y.
This designation steals
accomplishments from
other sciences, and
diminishes
accomplishments of
thermodynamics.
Rather,
thermodynamics is the

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The science of entropy.
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Entropy plays the
leading role in
thermodynamics.

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book to provide an
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Thermodynamics,
science of the
relationship between
heat, work,
temperature, and
energy. In broad terms,
thermodynamics deals

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with the transfer of energy from one place to another and from one form to another.

The key concept is that heat is a form of energy corresponding to a definite amount of mechanical work.

thermodynamics | Laws, Definition, & Equations | Britannica

To be able to use the
First Law of

Thermodynamics to

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estimate the potential
for thermo- mechanical
energy conversion in
aerospace power and
propulsion systems.

Measurable outcomes
(assessment method) :

1) To be able to state
the First Law and to
define heat, work,
thermal efficiency and
the difference between
various forms of
energy.

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materials. After an exposition of the fundamental concepts, examples of increasing difficulty are treated, which contain many 'real-world' applications. Many examples are laid out in details, and numerous diagrams are given to make sure that a solid understanding is reached.

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Figure 1. A steam engine uses heat transfer to do work. Tourists regularly ride this narrow-gauge steam engine train near the San Juan Skyway in Durango, Colorado, part of the National Scenic Byways Program. (credit: Dennis Adams)

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Let us break the word thermodynamics into two words, thermo and dynamics. 'Thermo' stands for heat while 'dynamics' is used in connection with a mechanical motion which involves 'work'. Therefore, Thermodynamics is the branch of physics that deals with the

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are given to make sure
that a solid
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Englewood Cliffs, N.J. :
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book provides an
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