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the energy, principally heat energy, that accompanies chemical or physical 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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Define the first law of

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thermodynamics. Describe how conservation of energy relates to the first law of thermodynamics. Identify instances of the first law of thermodynamics working in everyday situations, including biological metabolism. Calculate changes in the internal energy of a system, after accounting for heat transfer and work done.

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#### 1. 1 What it's All About

Thermodynamics is a science  
and, more importantly, an  
engineering tool used to describe  
processes that involve changes in  
temperature, transformation of  
energy, and the relationships  
between heat and work. It can be  
regarded as a generalization of  
an enormous body of empirical

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## **1.1 What it's All About**

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

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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 relationship between heat and other forms of energy.

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Thermodynamics is often called the science of energy. This

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accomplishments from other sciences, and diminishes accomplishments of thermodynamics. Rather, thermodynamics is the science of entropy. Entropy plays the leading role in thermodynamics.

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is supplied to water to create  
steam. The steam is then used to  
turn an engine which does work.

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