Laws of Thermodynamics

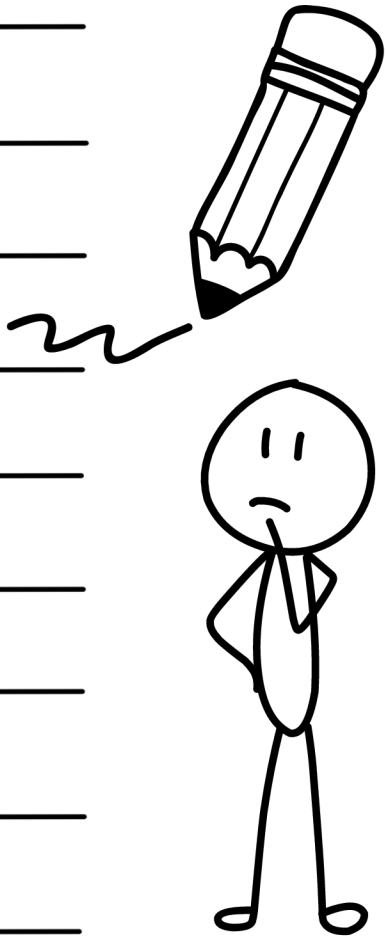
name: .....

date: .....

The first law of thermodynamics

Also known as the Law of Energy Conservation, states that energy **cannot be created or destroyed** in an isolated system. Instead, energy can only be transferred or converted from one form to another.

IF ENERGY CANNOT BE CREATED, BUT ONLY TRANSFERRED IN TIME, HOW DOES ENERGY EXIST AT ALL?



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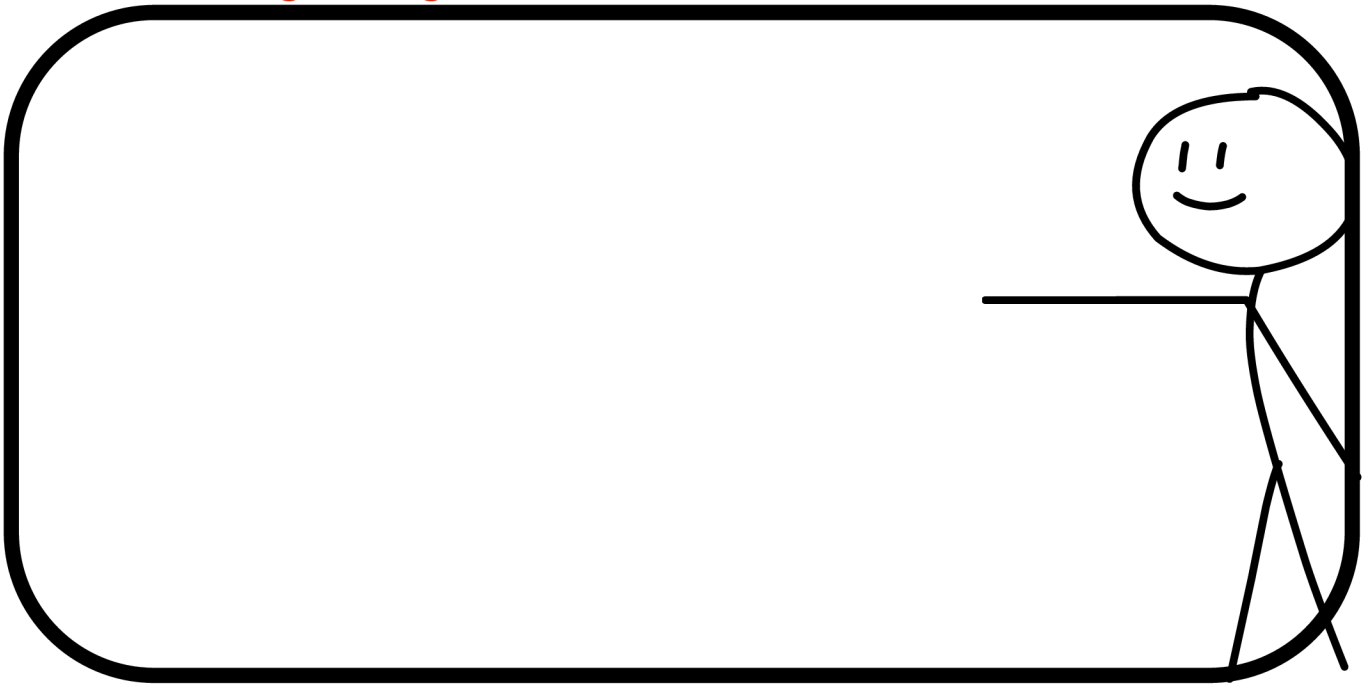
The first law of thermodynamics

This fundamental principle of thermodynamics, supports much of modern physics and engineering, providing a framework for understanding how energy flows and transforms in various processes.

Whether it's the heat energy from a burning log transforming into light and thermal energy, or the chemical energy in our food converting into kinetic energy as we move

The first law reminds us that the total energy within a closed system remains constant, simply changing its form and location.

Show the movement of energy from a burning log transferring into light:



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THE FIRST LAW OF THERMODYNAMICS - DRAW AN EXAMPLE IN THE BOX BELOW