

### Thermodynamics

The science that studies the relationship of heat with other forms of energy.

### Laws of Thermodynamics

Zeroth Law	Temperature	Thermal equilibrium is transitive.	If A=B, B=C, then A=C
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1st Law	Energy	Energy cannot be created or destroyed; it can only be converted from one form to another, or conserved.	$\Delta U = Q - W$
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2nd Law	Entropy	Entropy of an isolated system always increases. Heat always moves from hotter objects to colder objects, unless energy in some form is supplied to reverse the direction of heat flow	
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3rd Law



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