

Second Law of Thermodynamics

- The entropy change (Q/T) of the system+environment ≥ 0
 - never < 0
 - order to disorder
- Consequences
 - A “disordered” state cannot spontaneously transform into an “ordered” state
 - No engine operating between two reservoirs can be more efficient than one that produces 0 change in entropy. This is called a “Carnot engine”