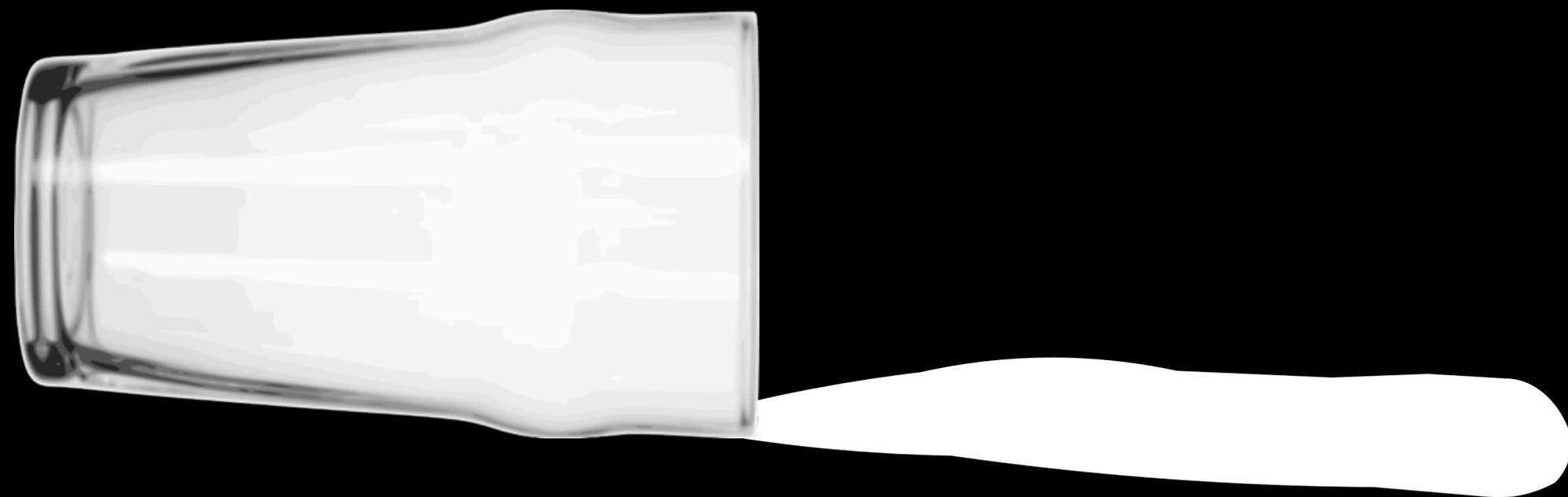
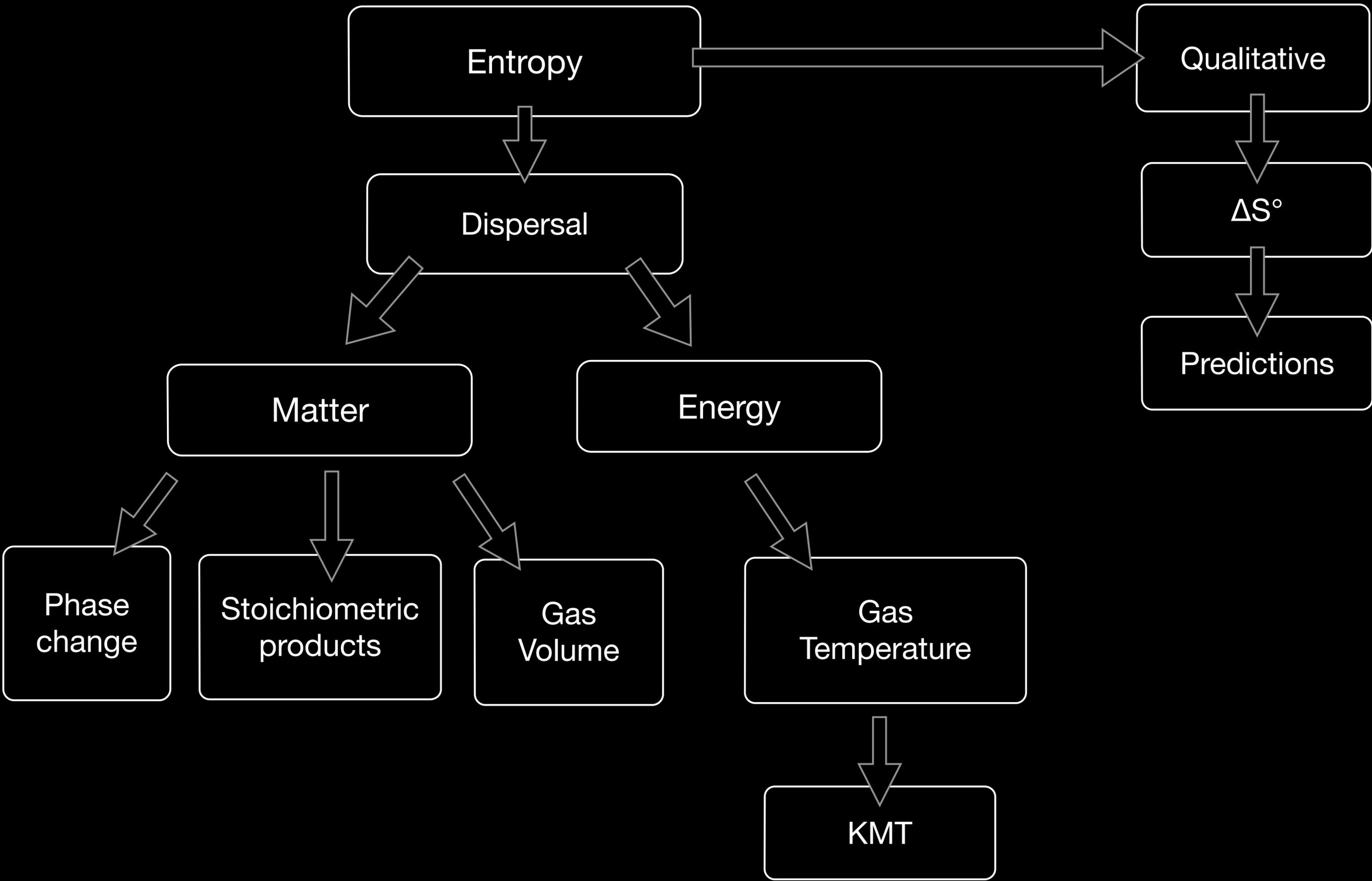


# Entropy



Chemistry Essentials - 057





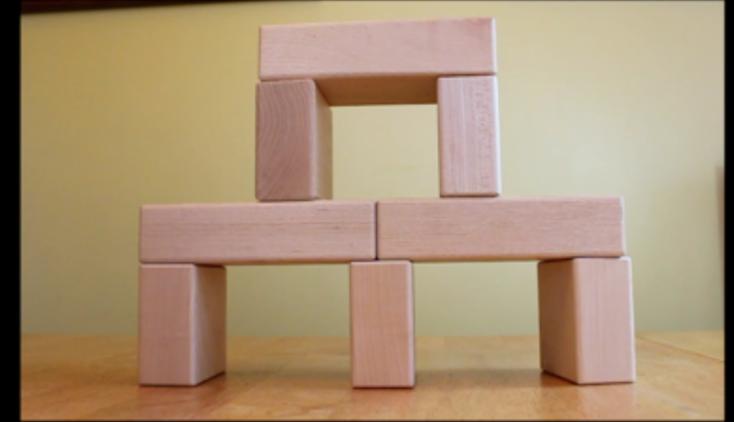
A



B



A



B



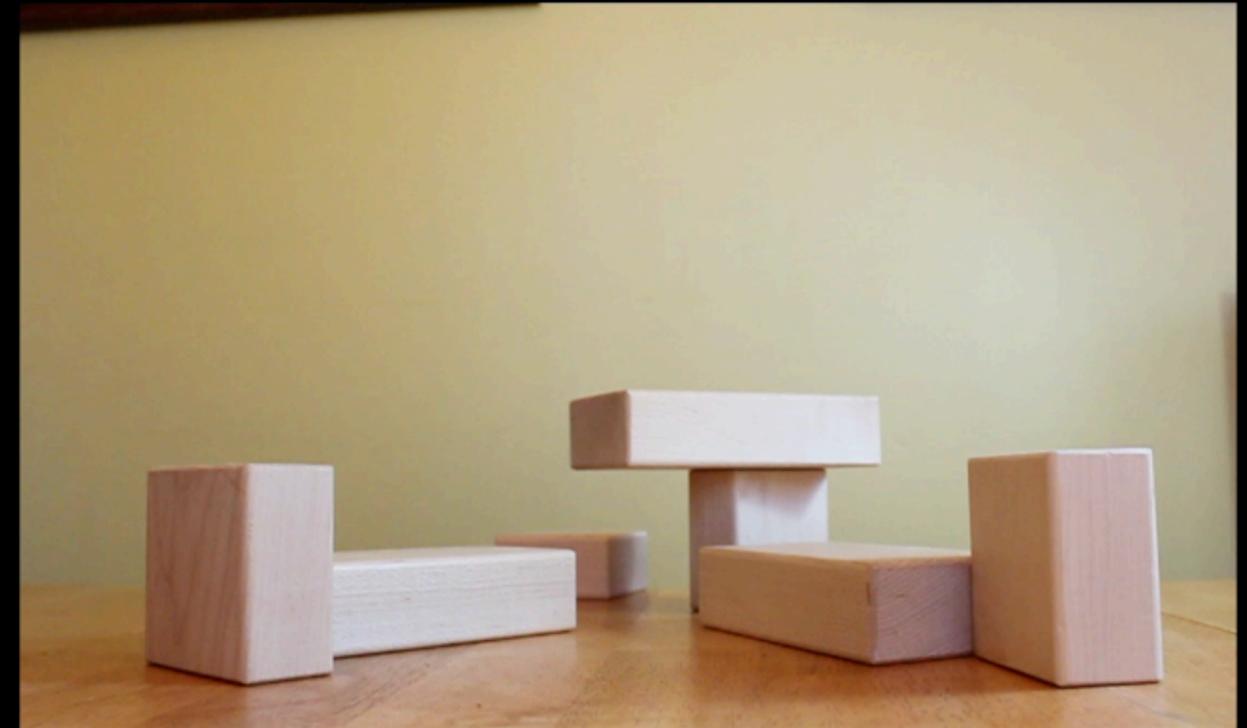
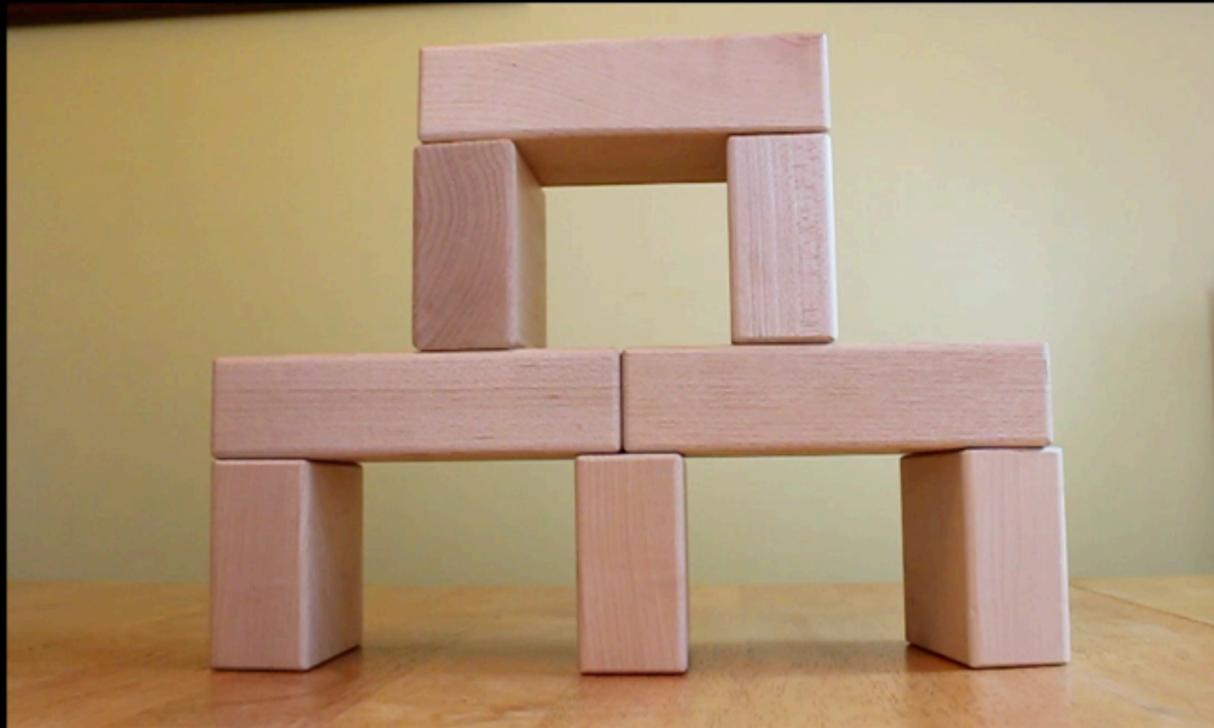
A



B

# SERIES OF VIDEOS

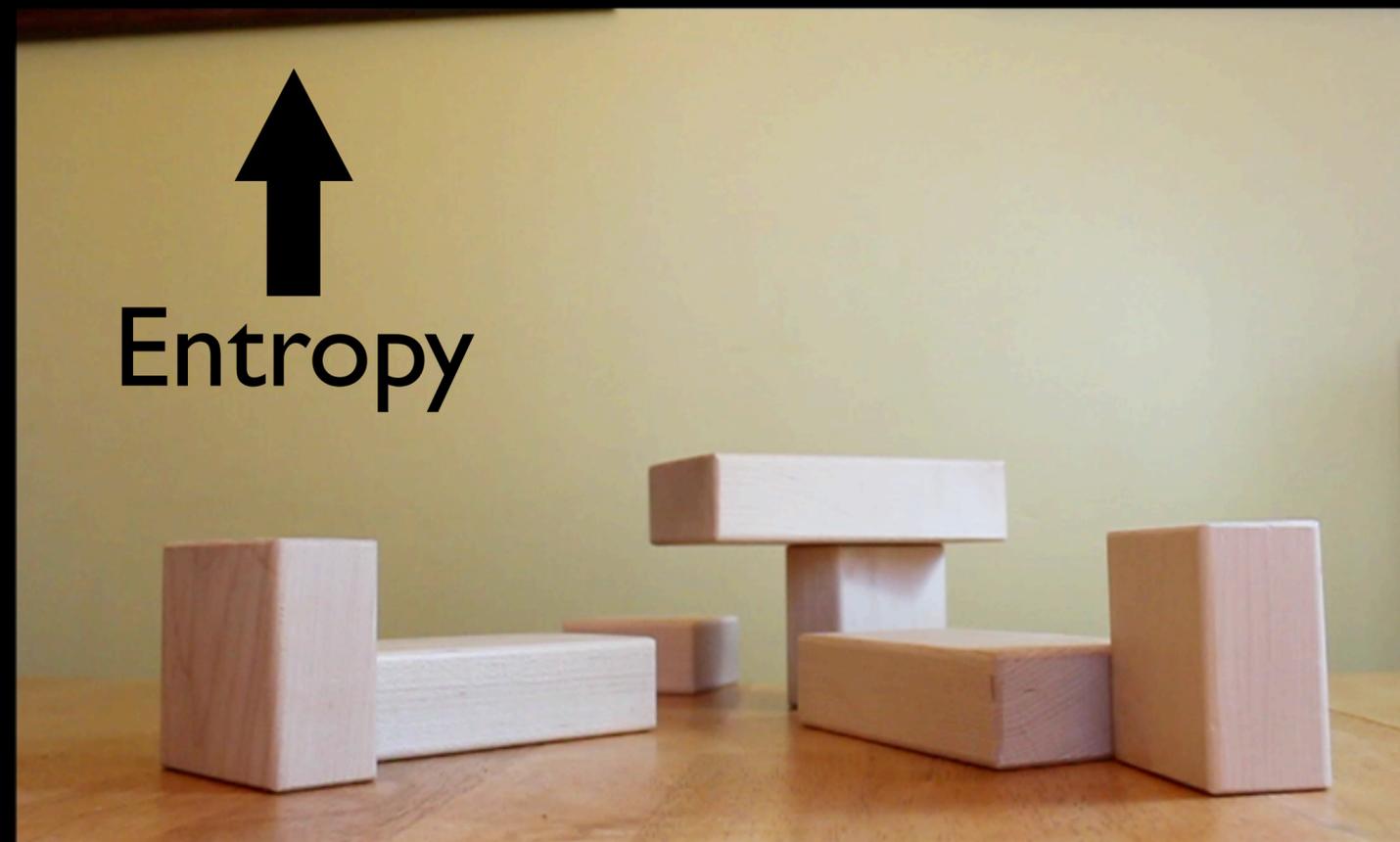
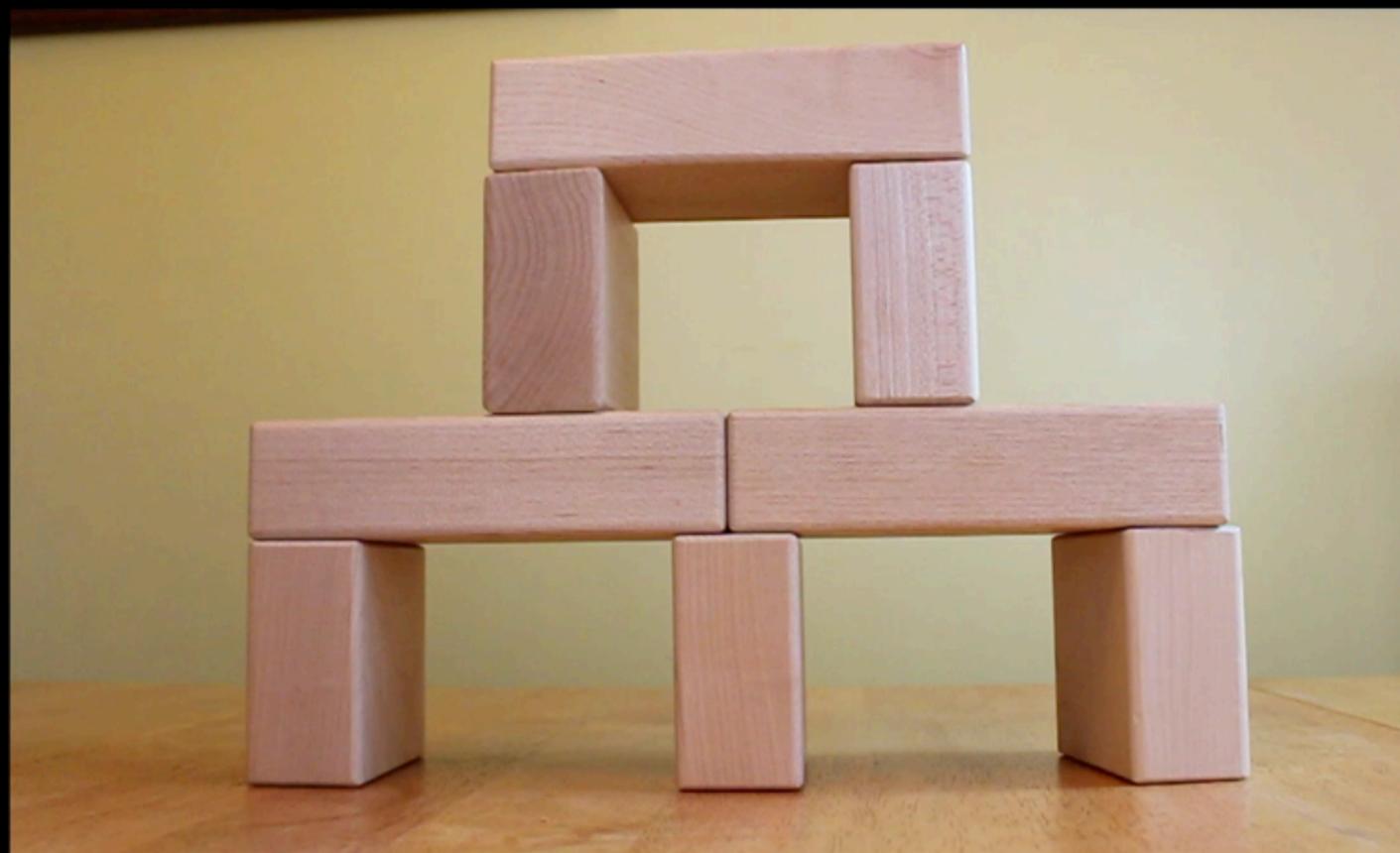
Irreversible process →



← Reverse process

**Statistically  
Improbable**

# Irreversible process

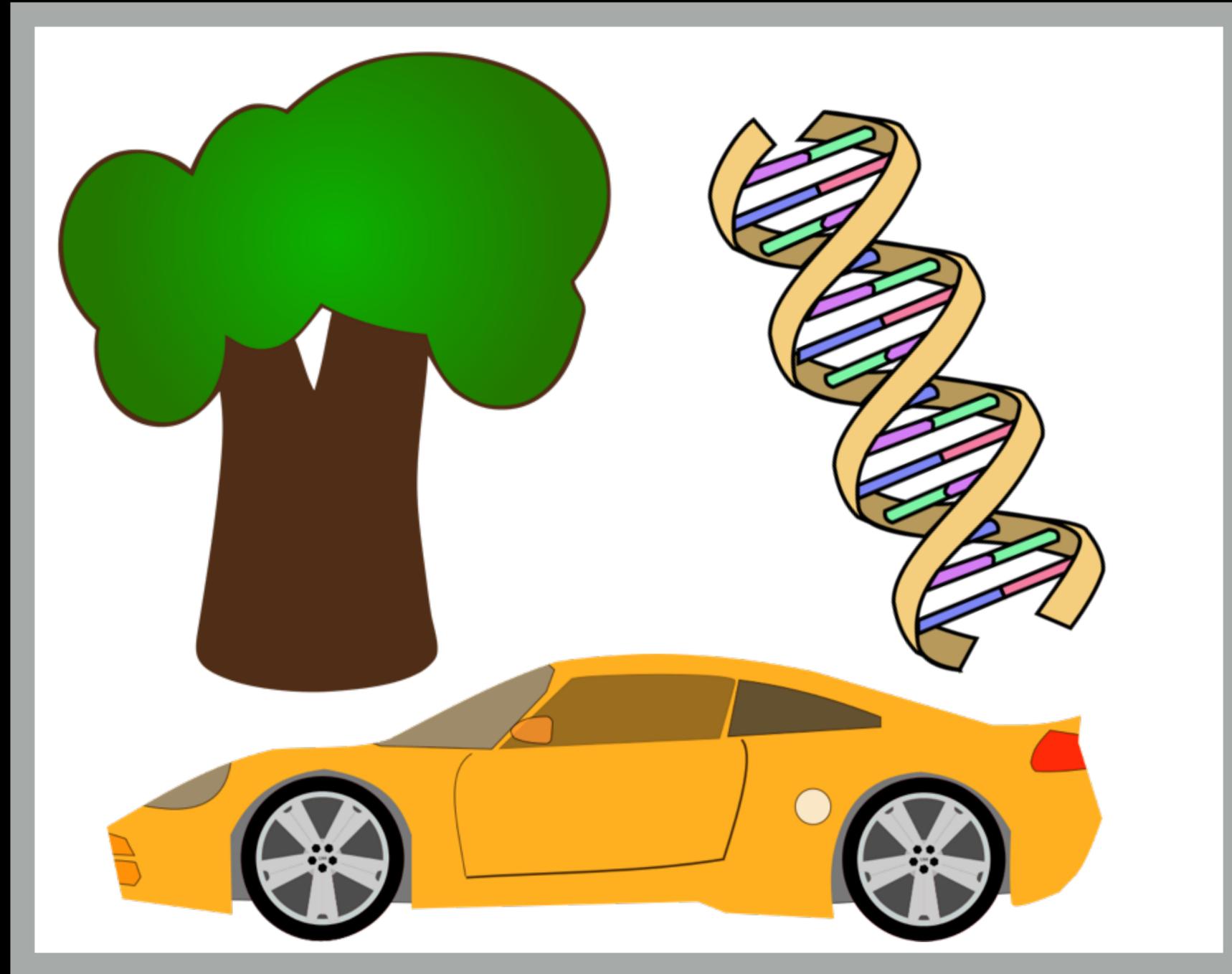


# Second Law of Thermodynamics

Entropy Never  
Decreases

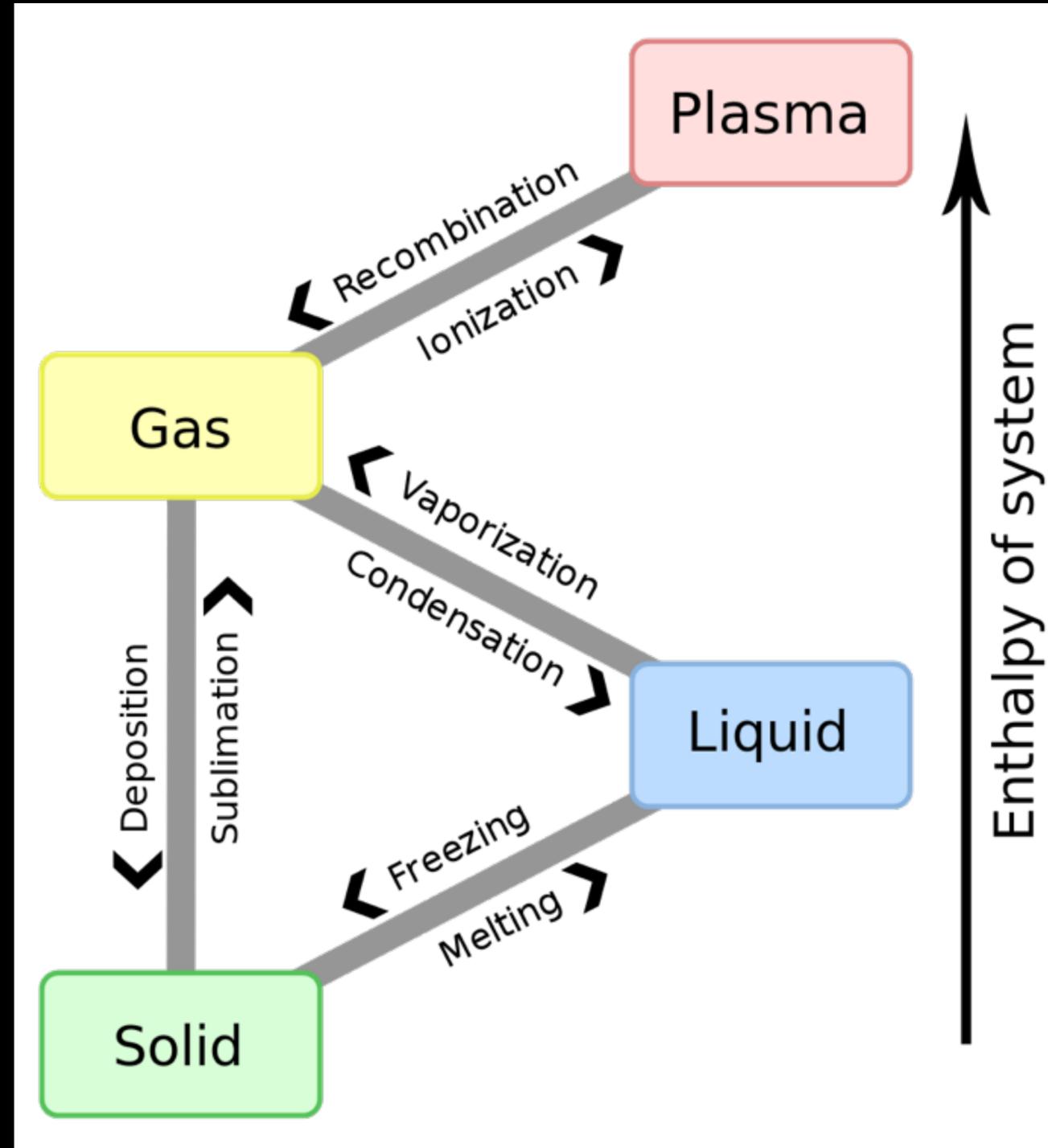
Isolated System

# Second Law of Thermodynamics



# Entropy

Matter  
Dispersal

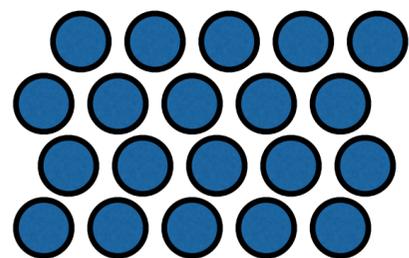


# Entropy

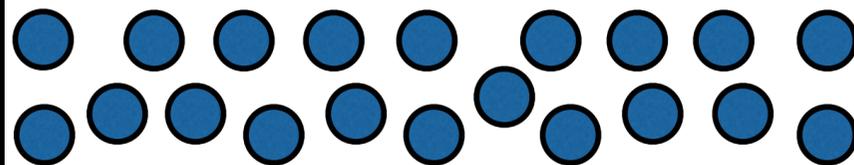
$$\Delta S^\circ$$

Matter  
Dispersal

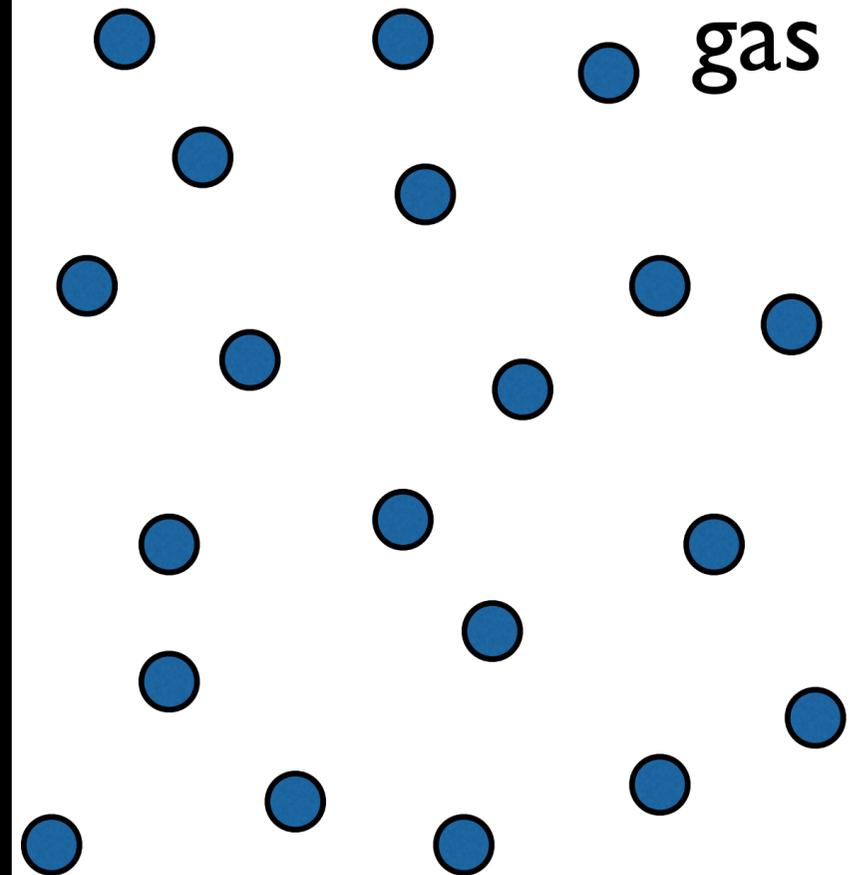
solid



liquid



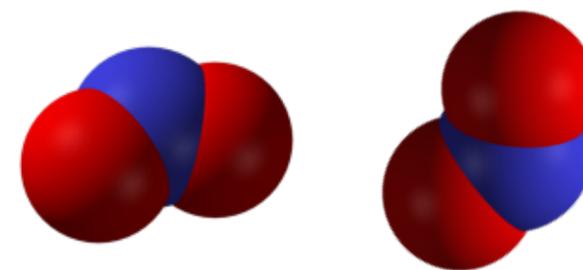
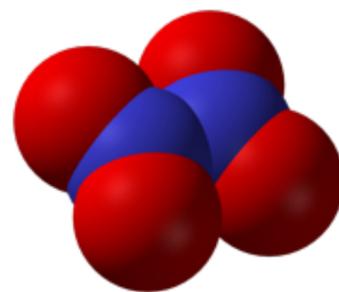
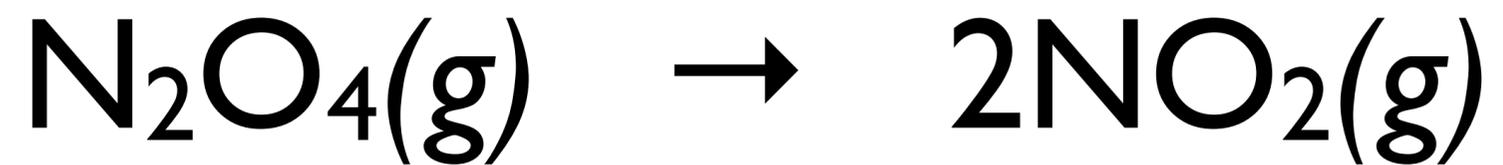
gas



# Entropy

Matter  
Dispersal

Stoichiometry

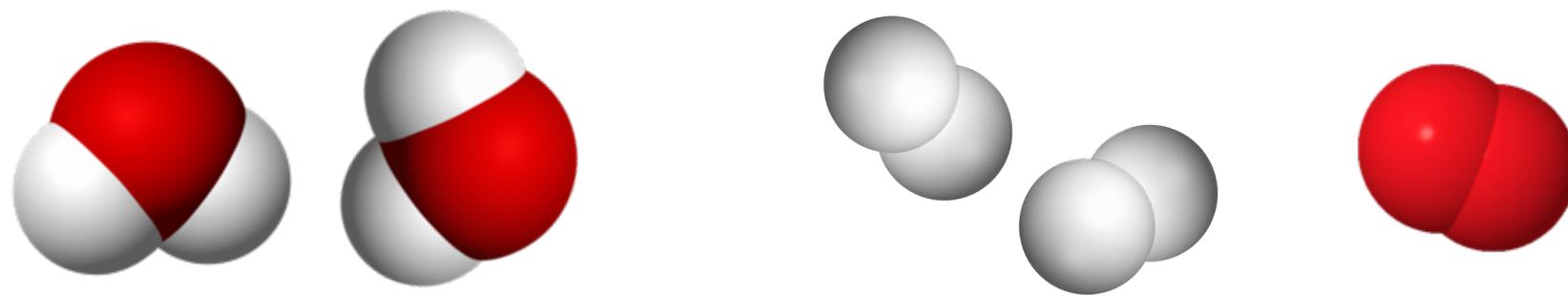


$\Delta S^\circ$

# Entropy

Matter  
Dispersal

Stoichiometry

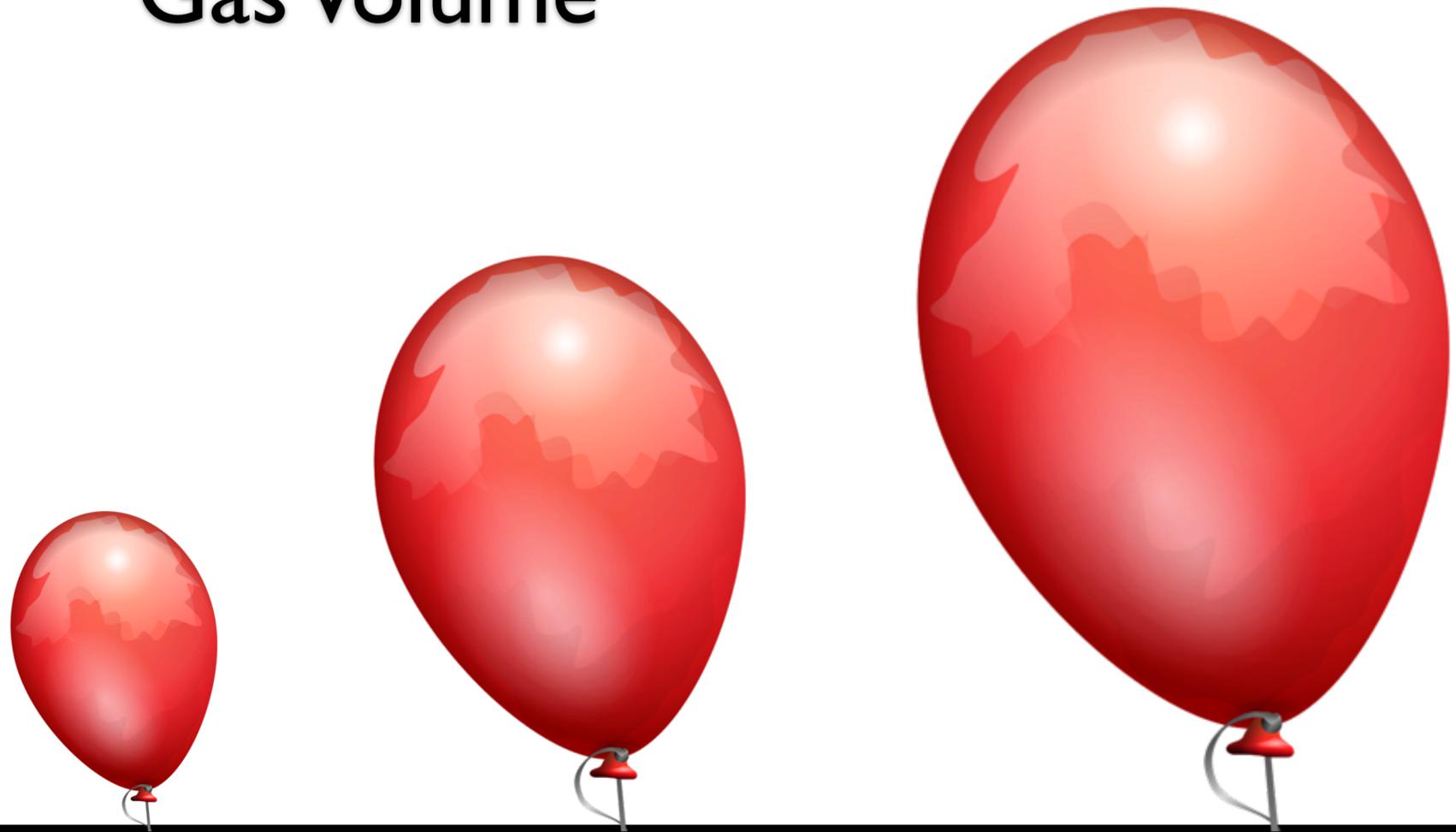


$\Delta S^\circ$

# Entropy

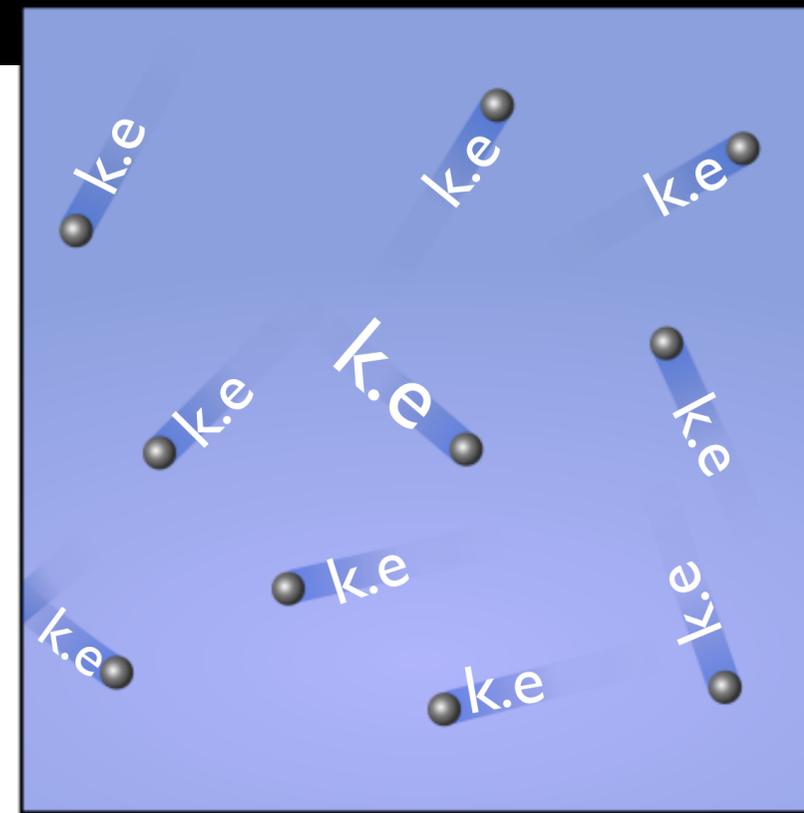
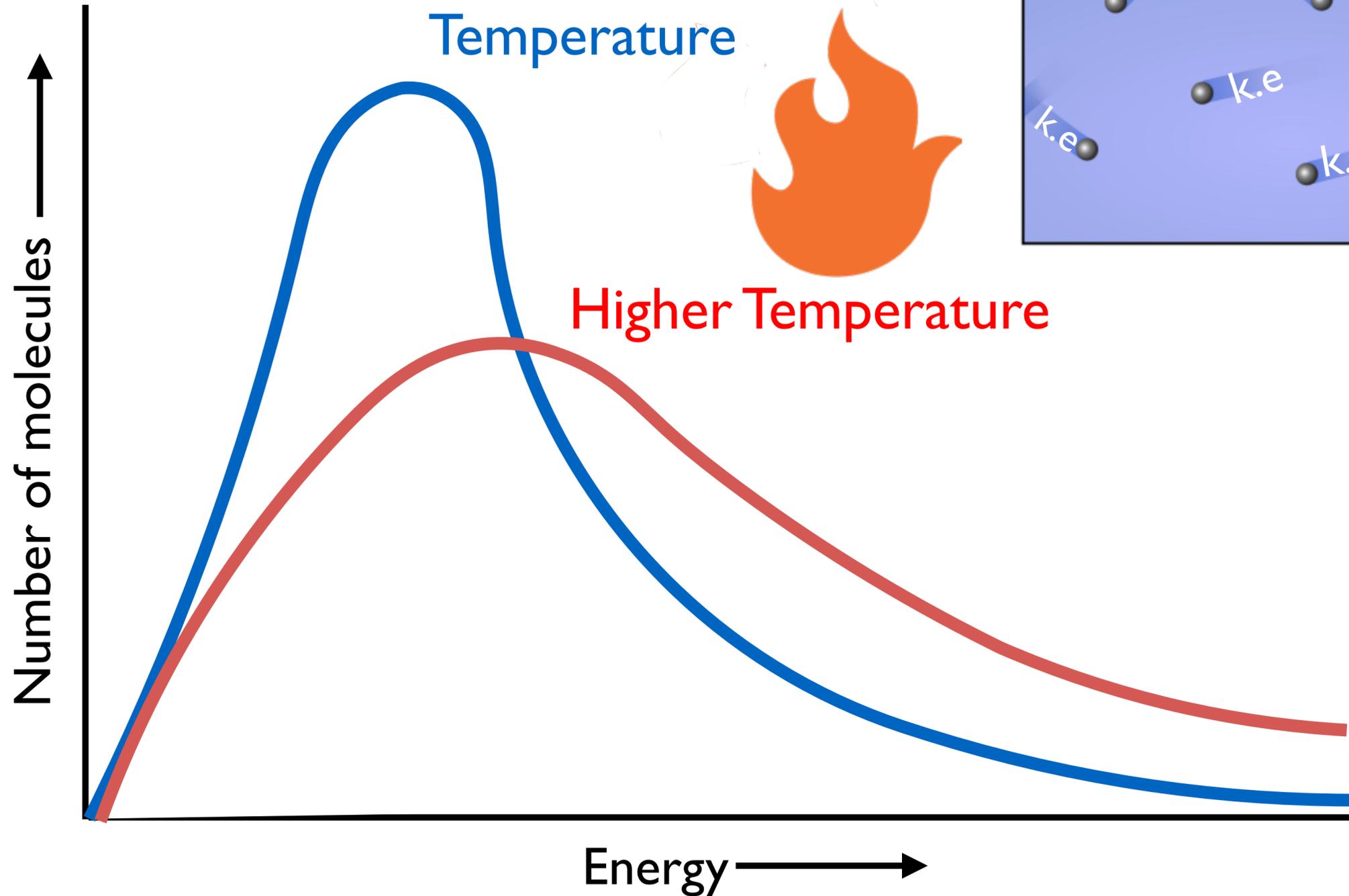
Matter  
Dispersal

Gas Volume



$\Delta S^\circ$

# Kinetic Theory Model



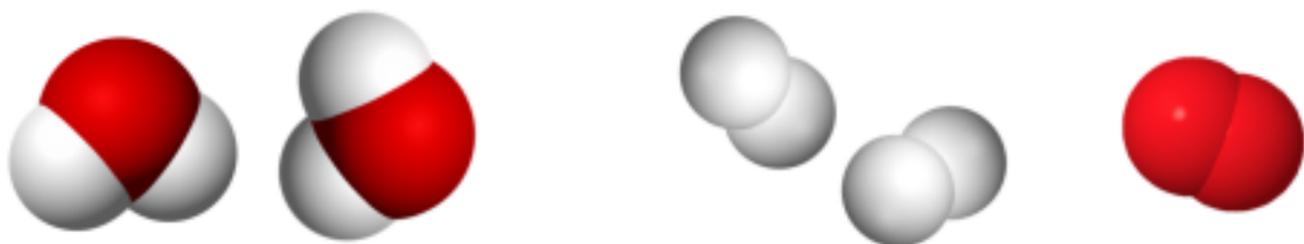
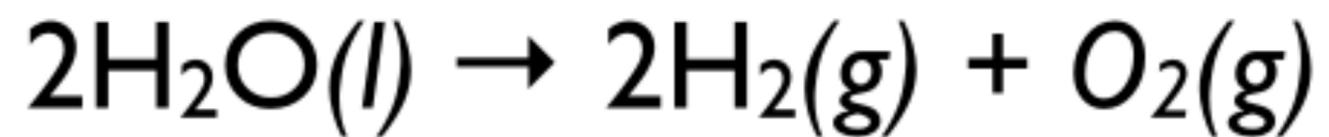
# Entropy

Energy

Dispersal

Did you learn?

Stoichiometry



To predict the sign and relative magnitude of the entropy change associated with chemical and physical processes.

## Acknowledgements

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