What does the term FREE energy mean?

Equation for Gibb’s Free Energy ΔG = ΔH –TΔS

 ΔG =

 What does it mean when enthalpy is decreasing?

 ΔH=

 What does it mean that entropy is increasing? (second law of thermodynamics)

 ΔS=

 T =

Look at the equation again ΔG = ΔH –TΔS What happens to ΔG when you decrease Enthalpy and increase entropy and temperature?

What does a –ΔG mean?

What does a +ΔG mean?

What does no change in ΔG mean?

Relate free energy to Cell Respiration.

Relate free energy to Photosynthesis

How is activation energy different from free energy?

Explain the change in free energy as related to ATP and ADP.