

Free Energy

Where does the energy come from that keeps all living things alive?

Why?

All living things require a constant flow of energy. This is one of the big ideas in science. If the flow of energy to an ecosystem is cut off, like an extended lack of sunlight or food, then all the living things in the ecosystem will die. But you have heard of the Law of Conservation of Energy, so why wouldn't there always be enough energy to go around?

Model 1 – Spontaneous Processes

	Process Description	Change in Enthalpy (ΔH)	Change in Entropy (ΔS)	Spontaneous?
A	Two pure substances → Homogeneous mixture	- 0	Increasing	Yes
B	Solute on one side of membrane → Solute on both sides of membrane	- 0	Increasing	Yes
C	Polypeptide chain → Individual amino acids	Exothermic (negative)	Increasing (positive)	Yes
D	$C_3H_8 + 5O_2 \rightarrow 3CO_2 + 4H_2O$	Exothermic	Increasing	Yes
E	$6CO_2 + 6H_2O \rightarrow C_6H_{12}O_6 + 6O_2$	Endothermic	Decreasing	No
F	Glucose → Starch	Endothermic	Decreasing	No
G	Water → Ice	Exothermic	Decreasing	Below 0 °C, yes Above 0 °C, no
H	Cold water (25 °C) → Hot water (60 °C)	Endothermic	Increasing	Below 60 °C, no Above 60 °C, yes

1. Consider Model 1.

a. What two terms are used to describe the enthalpy changes for the reactions?

Endothermic and Exothermic

b. What is the symbol for the change in enthalpy?

A triangle with an uppercase H

c. What sign (+ or -) does the change in enthalpy have when the reaction releases heat energy to the surroundings?

-Negative

Save Energy Pogil

Rachel S Tattersall

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the author's name.

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