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## Bond Energy Study Guide (Chemistry 2.2)

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### 1. Why atoms form bonds

Atoms form bonds to reach a lower, more stable energy state.

- Each atom has **protons (+)** in its nucleus and **electrons (-)** around it.
- **Coulombic attraction** is the force between opposite charges. When atoms get close, their nuclei attract the other atom's electrons.
- This attraction lowers potential energy — that's why bonds form.

When the bond forms:

- **Energy is released** → the system becomes more stable.
- **Bond making = exothermic process.**

When a bond breaks:

- **Energy is absorbed** → you must overcome that attraction.
- **Bond breaking = endothermic process.**

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### 2. Endothermic vs. Exothermic

Type of Process	Energy Flow	What Happens	$\Delta H$ (Enthalpy Change) Sign
Endothermic	Energy absorbed	Bonds are broken	Positive (+)
Exothermic	Energy released	Bonds are formed	Negative (-)

Example:

- When hydrogen and chlorine form HCl, the reaction releases energy — **exothermic**.
- When you separate HCl into H and Cl atoms, you need energy — **endothermic**.

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### 3. Net Enthalpy Change ( $\Delta H$ )

# Energy Study Guide Modeling Chemistry

**Ying Liu**



## **Energy Study Guide Modeling Chemistry:**

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web hierdie vraestelle dek ook die vrae wat in departementele graad 10 junie en november vraestelle voorgekom het vanaf 2010 tot 2019 dit is uiters volledig en bied uitstekende voorbereiding vir graad 10 leerders vir die junie en november eksamens

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web jun 28 2023 hierdie produk bestaan uit n aflaaibare graad 10 lewenswetenskappe september eksamen memo vraag 1 organiese verbindings basiese strukture van selle mitose plantweefsel diereweefsel vraag 2 plant en diersel chloroplaste vraag 3 mitose organiese en anoragniese verbindings die vraestel bestaan uit 7 bladsye vir 65 punte

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web vraestel 2 v2 februarie maart 2010 2019 v2 junie 2015 2019 vraestelle graad 8 junie september november graad 9 junie

september graad 10 vraestel 1 junie 2012 2018 vraestel 2 november 2012 2017 graad 11 vraestel 1 junie 2012 2018 vraestel 2 november 2012 2017 graad 12 vraestel 1 v1 februarie maart 2010 2019 v1 junie 2016 2019