

General Chemistry I - Course Study Sheet

Course: General Chemistry I Cluster: Natural and Physical Sciences

Develops measurement, atomic structure, bonding, stoichiometry, gases, energy, and chemical reasoning.

Five-module course map

Module	Active evidence to produce
1. measurement and moles	Explain the central idea, complete an application, diagnose one plausible error, and connect it to the next module.
2. atomic structure	Explain the central idea, complete an application, diagnose one plausible error, and connect it to the next module.
3. bonding and molecular shape	Explain the central idea, complete an application, diagnose one plausible error, and connect it to the next module.
4. stoichiometry	Explain the central idea, complete an application, diagnose one plausible error, and connect it to the next module.
5. gases and thermochemistry	Explain the central idea, complete an application, diagnose one plausible error, and connect it to the next module.

Reliable learning method

write and balance the relationship, convert with units, identify limiting quantities, calculate, and check magnitude and significant figures

Representative application

Determine product yield from measured reactants and explain limiting reagent, theoretical yield, and measurement limits.

Weekly study cycle

1. Preview the objective and write two questions. 2. Attend or engage and capture decisions rather than every sentence. 3. Reconstruct the main idea within 24 hours. 4. Complete independent practice. 5. Analyze the first unsupported move on each error. 6. Use feedback. 7. Schedule a delayed mixed recheck.

Self-check before moving on

Can you explain the idea without notes, complete a fresh task, detect a near-miss, verify the result, and state a limitation? Watch especially for: using formulas without units, balanced equations, mole ratios, limiting reagents, or significant-figure judgment.

What to save

a dimensional-analysis solution with molecular reasoning, units, and verification

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