

Quantitative Reasoning - Course Study Sheet

Course: Quantitative Reasoning Cluster: Mathematics and Quantitative Methods

Uses ratios, units, estimation, models, finance, and data literacy for civic and everyday decisions.

Five-module course map

Module	Active evidence to produce
1. unit analysis	Explain the central idea, complete an application, diagnose one plausible error, and connect it to the next module.
2. proportional reasoning	Explain the central idea, complete an application, diagnose one plausible error, and connect it to the next module.
3. estimation	Explain the central idea, complete an application, diagnose one plausible error, and connect it to the next module.
4. financial mathematics	Explain the central idea, complete an application, diagnose one plausible error, and connect it to the next module.
5. data claims	Explain the central idea, complete an application, diagnose one plausible error, and connect it to the next module.

Reliable learning method

name quantities and units, estimate scale, select a model, calculate transparently, and evaluate whether the claim is reasonable

Representative application

Audit a public percentage claim by reconstructing the denominator, time period, comparison group, and absolute change.

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: accepting a precise-looking number without checking source, denominator, units, uncertainty, or magnitude.

What to save

a claim audit with calculations, source notes, assumptions, and plain-language conclusion

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