

Study Options

- **Concept Summaries:** Definitions, visuals, purpose written in own words & more efficient way
- **Generalized Approach:** Information needed to think about & consider before deciding how to execute (“~ 4 ideas”)
- **Boolean Flow:** Organized information in “if/then” format needed when thinking through how to execute different problems within a topic. Flow includes monitoring questions.
- **“Game walk-through”:** Start with solved problem, annotate, then categorize into ACE-M (application) or A-E-M (skills).
- **Concept Map:** Connects definitions, visuals, purpose (concept summaries) with generalized approaches, Boolean flows & makes unique connections across topics (supports flexible thinking and innovation). Monitoring questions inserted that reflect a balance of procedure and reasoning integrated throughout.
- **Think Aloud:** Educations: record thinking while doing during first attempt, then listen to analyze where to focus: generalized approach or Boolean flow.
- **Teach a Peer/Critique a Peer’s work:** Listen to thinking, find where student understands and start explaining the “why” behind the procedure. Have peer teach you back to ensure understanding.

Implementation Recommendations

Teach goal setting: reflect on mistakes and misconceptions

Teach concept summary

Teach decision point questions: how to ask a balance of why, what if, how, and when questions

Teach Boolean flow that highlights monitoring when and how knowledge is applied during execution

Teach generalized approach that highlights monitoring what if and why to ignite thinking around the right content

Teach concept map connections

Teach selecting & connecting study options to attain goals

