



Strategies to Expand Novice Learners' Beliefs About Learning

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Start with Course Feedback

- Encourage application to demonstrate understanding
- Emphasizing learning, tests & grades
- Making class intellectually stimulating
- Help students answer their own questions
- Promote self-directed learning



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Course Feedback -continued

- Focus on the quality of the educational encounter
- Emphasize the learning experience
- Examples
 - Usefulness of the problem sets
 - Quality of the feedback they are receiving
 - Effectiveness of the class format
 - How their thinking on the subject changed
 - How the course helped them develop as a thinker
 - How the course helped them develop as a person

—Hodges & Stanton, (2007)

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Practices & Policies

- Participation, attendance, mobile devices
- Deadlines
- Course weights
- Class norm statements
- Student/teacher role expectations



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Coaching

- Build trust
- Provide rationales
- Practice like it's a performance
- SELF (Kitsantas & Zimmerman, 2009)



HOMEWORK STRATEGIES

Emphasize **PROCESS**, not product or time

- Active reading
- Note-taking
- Concept maps
- Quiz to learn
- "Cheat" sheets
- Student-created problems/scenarios
- Grading & formative assessment



BEWARE the mind tricks!

- Overconfidence
- Optimism bias
- Hindsight bias
- Attribution bias
- Confirmation bias



TEST PREPARATION

- Self-testing
- Study timeline
- Exam wrappers
- Reflection
- Attendance & note-taking accuracy checks


