Discipline Specific Literacy: Improving Comprehension in **Content Area Classes**

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Goals

SIM PDers WBAT:

- recognize depth of understanding in content area
- gain another point of entrance with content area teachers
- deepen connections between improving comprehension and SIM

Components of Instruction that build Comprehension

- Background knowledge
 - World
 - Vocabulary
- Knowledge of text/discourse structures

 ✓ Narrative/Expository organizational patterns

 ✓ Student awareness and Strategic use

- Cognitive Strategies

 Goal-specific (activate pk; text analysis, SQ, paraphrasing, summarizing, visual imagery)
- Monitoring and repair Packaging
- Increase motivation/engagement

Structures for Learning

- Listening
 - Teacher Behaviors
 - Success regardless of literacy level
 - Example: Instructional Routines
- Reading
 - Student behaviors
 - Require mediated instruction for independent mastery
 - Example: Learning Strategies

Science's Critical Challenge

- Help students to change what they believe intuitively, based on prior knowledge or perceived experience, by shifting understanding
 - e.g., seasons caused by the tilt of the earth, not the distance from sun
- Instruction is intended to create informed consumers and engaged citizens

History's Critical Challenge

- History is the narrative of a people with bias and context, not just a story.
- Historians read to do three things:
 - Corroborate (find the overlap)
 - Source (find the bias in documents)
 - Contextualize (find the context of the writing)
 - This results in knowledge that is nuanced, even when prior knowledge is limited!

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Background Knowledge

- Address intuitive misunderstandings to prevent reader ignoring, discounting, and compartmentalizing accurate information that is different by
 - Clarification of background knowledge vs. Activation prior
 - Provide explicit contradictions to help shift intuitive beliefs
- Address inconsiderate texts
 - High level vocabulary words and poorly explained concepts
 - Fail to tie students experience and knowledge to concepts, impeding inference making
 - Graphs and charts are often hard to read

Text/Discourse Structures

- Address the scope and life of the field by
 - Using multiple texts: films, trade books, journal articles, experiments, lab reports, historical documents...& textbooks

 - Teach the structure and language-use of these genres explicitly, including as "speech acts"
- Observe multiple perspectives and come to objective evaluation
 - Step outside of intuitive or personal beliefs
 - Critically examine personal beliefs in light of others before forming opinions or evaluations
- Truth
 - Truth ≠ Textbook
 - Truth is always an approximation

Cognitive Strategies

- Students who believe that science has a Truth that is unchanging:
 - use shallow strategies to study facts (right and wrong)
 - Do not engage deeply understand the concepts
- · Common Science Strategies
 - Graphic Organizers
 - Questions related to key points
 - Text structures (organization of texts—articles, reports, textbooks, etc.)

Cognitive Strategies

Common History Strategies

- Story Grammar for narrative comprehension
- Prompts & structures to organize expository essays
- Self-questioning around Big 3 Skill areas
 - What biases or predispositions did the author or authors have?
- Write evaluations of different perspectives, not summaries of a Truth
- Engage in collaborative reasoning by taking and defending a position

Motivation & Engagement

- · Motivation is tied to helping the student find
 - the material interesting,
 - perceived as useful,
- Motivation is most possible when students
 - have self-efficacy,
 - are self-regulated learners
- Ensure multiple texts are accessible and create desired contradiction
- Collaborative reasoning must be taught, roles clarified, and tasks clearly outlined.

Word Study

- · Multisyllabic Words
- Difficult, often content specific syntax
- Variety of unique semantic constructions

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English/Language Arts

Critical Challenge
• Strategies help to develop "High Literacy," defined as the educational goal of teaching all students to think, read, and write critically.

- Of Note

 Langer, 2001 conducted a five-year qualitative study of highly successful English classrooms with diverse groups of students. P. 45 has results (below)

 Strategies, skills and knowledge are taught in multiple types of lessons

 Tests are deconstructed to inform curriculum and instruction

 Within curriculum and instruction, connections are made across content and structure to ensure coherence

 strategies for thinking and performing are emphasized

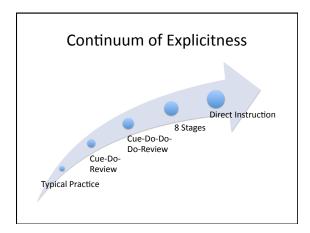
 Generative learning is encouraged

 Classrooms are organized to foster collaboration and shared cognition

Common Strategies

(Following Reciprocal Teaching: Questioning, Clarifying, Summarizing, Predicting)

Leverage with Students Strategy Knowledge Topic Knowledge Alexander, 1997



Watch your language • Modeling (vs. Demonstration) • Strategy (vs. Skills) • Practice (Guided, Independent, Cooperative) • Corrective Feedback • Intensity • Literacy/Reading • Explicit Instruction • Critical Thinking • Self-Regulation • Mediation • Objectives	
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