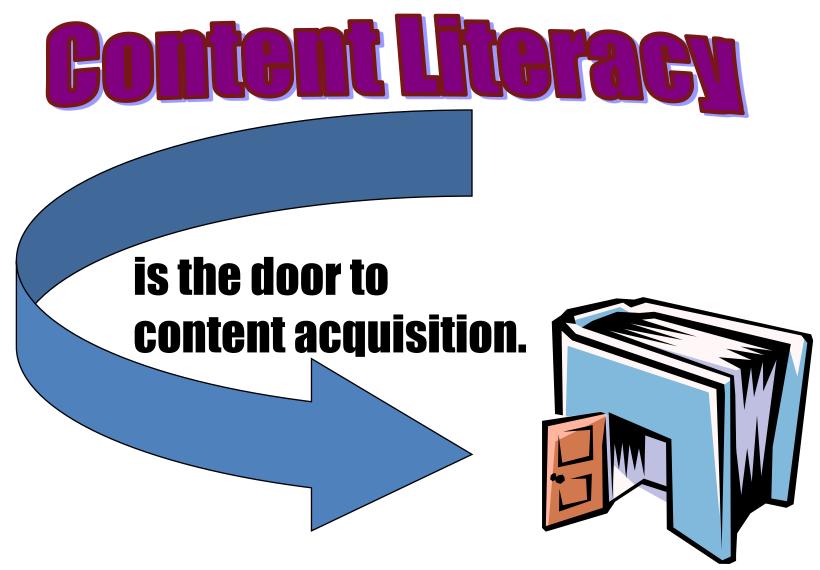
Literacy at the Middle School Level: Using the CLC to Guide Rtl Decisions

Joan M. Miller, Ph.D.

NYS Response to Intervention Technical Assistance Center

Mount Saint Mary College, Newburgh, NY





The listening, speaking, reading and writing skills and strategies necessary to learn in each of the academic disciplines.

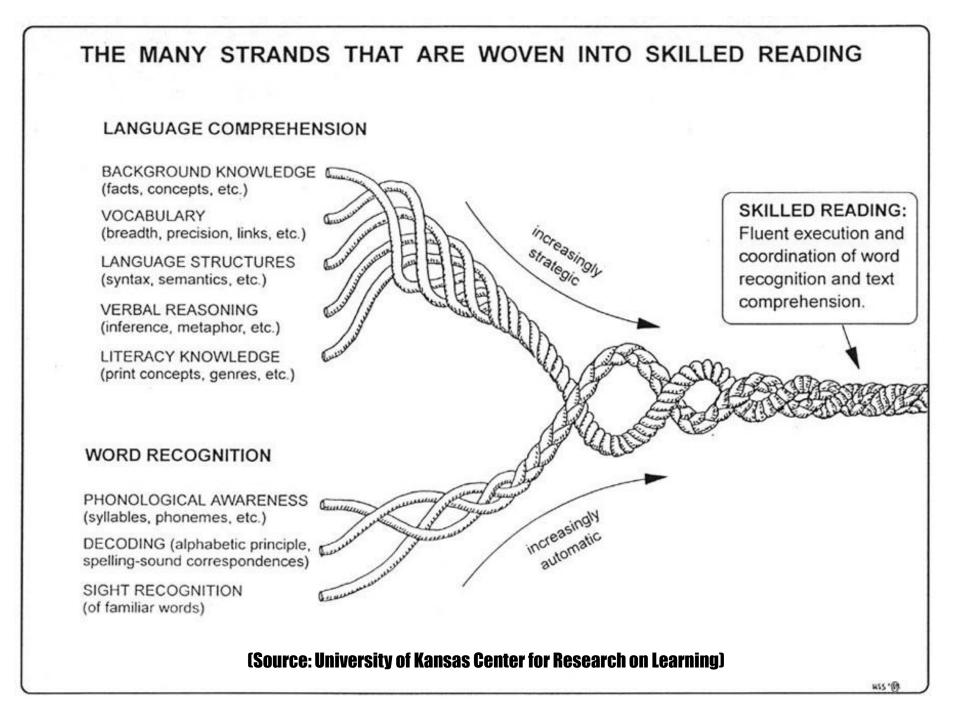
Adolescent Literacy in the U.S.: The Problem (McPeak et al., 2007)

- Approximately two-thirds of eighth- and twelfthgrade students read at less than the "proficient" level as described by NAEP (National Institute for Literacy, 2006).
- Approximately 32 percent of high school graduates are not ready for college-level English composition courses (ACT, 2005).
- Over half of adults scoring at the lowest literacy levels are drop-outs and almost a quarter are high school graduates (NCES, 2005).

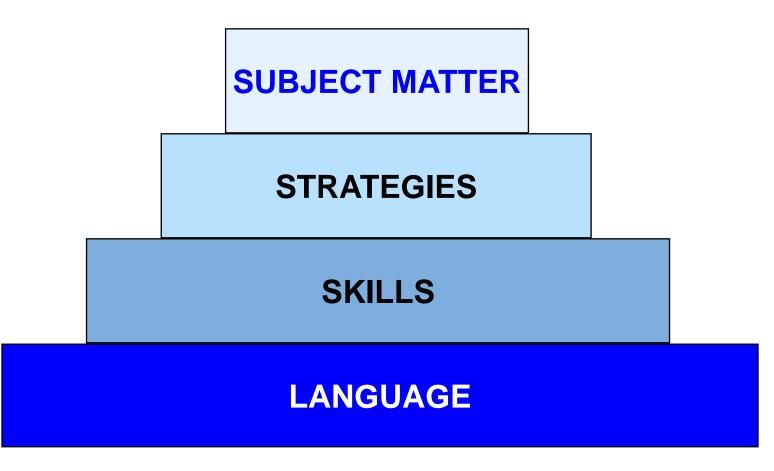
The Problem (McPeak et al., 2007)

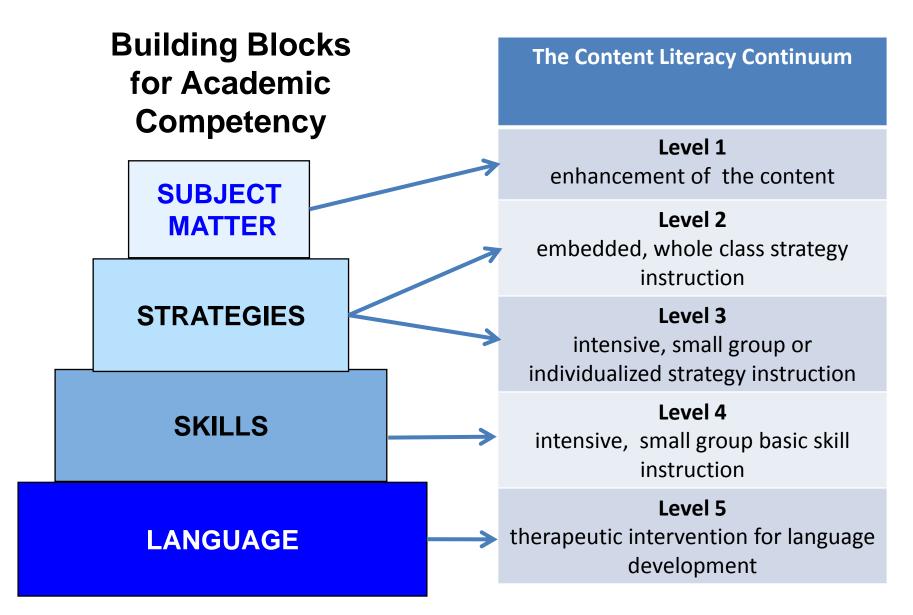
(continued)

- Approximately 40 percent of high school graduates lack the literacy skills employers seek (Achieve, Inc., 2005).
- U.S. drop-outs' literacy skills are lower than most industrialized nations, performing comparably only to Chile, Poland, Portugal and Slovenia (OECD, 2000).
- A full 70 percent of U.S. middle and high school students require differentiated instruction—that is, instruction targeted to their individual strengths and weaknesses (Alliance for Excellent Education for the Carnegie Corporation of New York).



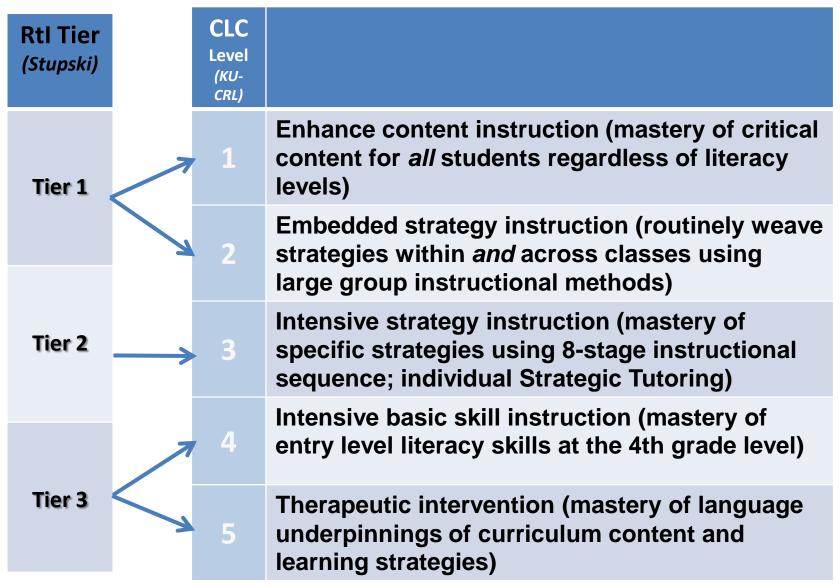
Building Blocks for Academic Competency





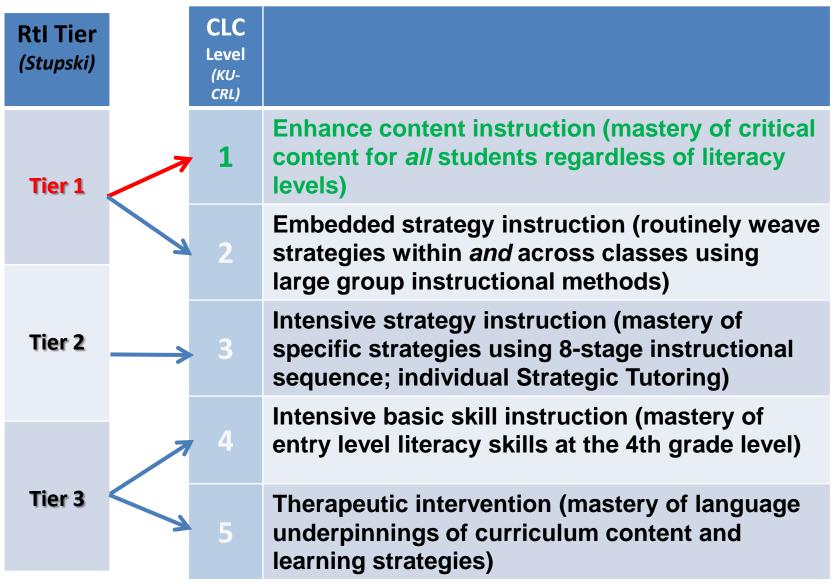
How does the Content Literacy Continuum fit into Response to Intervention?

How does the CLC fit into Rtl?



Let's look at Level 1 of the CLC, which is part of Tier 1 of Rtl.

The RtI – CLC Connection

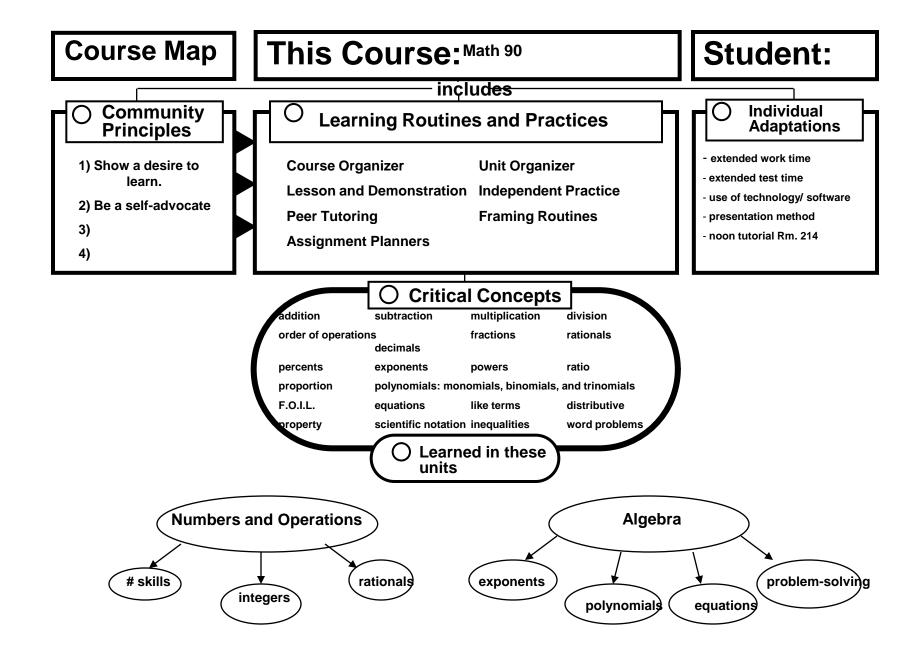


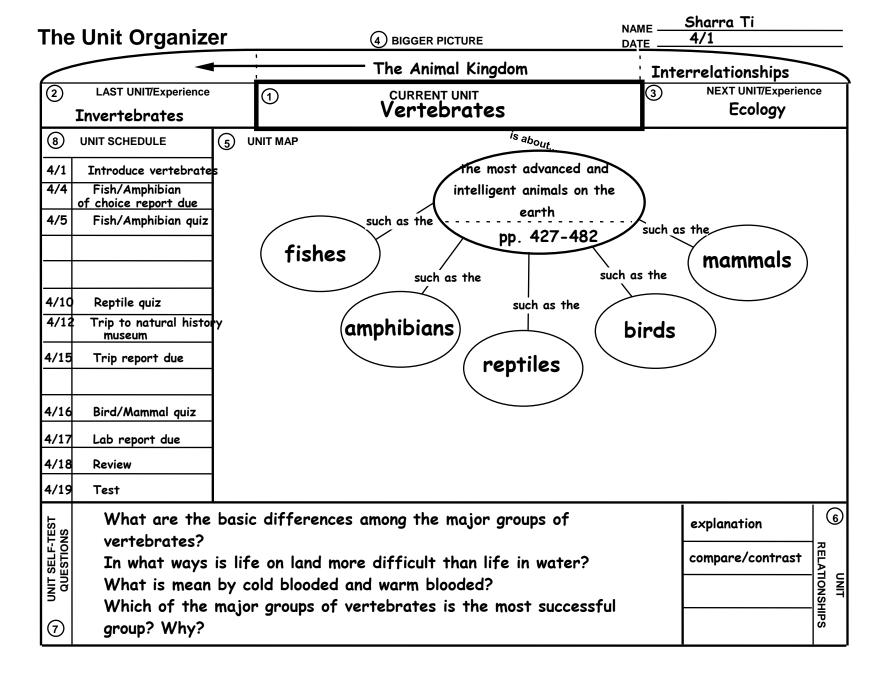
Content Enhancement Teaching Routines

Planning and Leading Learning

- Course Organizer
- Unit Organizer
- Lesson Organizer

Teacher(s): Time:	The Course Organizer	Stuc	dent: Irse Dates:		
• This Course: MATH 90		Course Standards:Exams50%Homework4000000000000000000000000000000000000		ls:	
O Course Q How do we + , - , x , / integers and operations? How are the laws of exponents app How do we perform operations (+ polynomials? (principles of algeb How do we solve equations and in How do we use the problem-solvin solve, and check a word problem? Why should we recognize, discuss ideas as they relate to real-life situ Why is it important to have confid variety of mathematically related	rational #'s in a proper order of plied? ,- , x, /, F.O.I.L.) on ora) equalities? ag model to understand, plan, , and write about mathematical actions? lence in my ability to solve a			<u>30%</u> 00%	





Example of Results: The Course Organizer

When teachers used a Course Organizer Routine, students considered at risk for school failure answered more course content questions correctly.

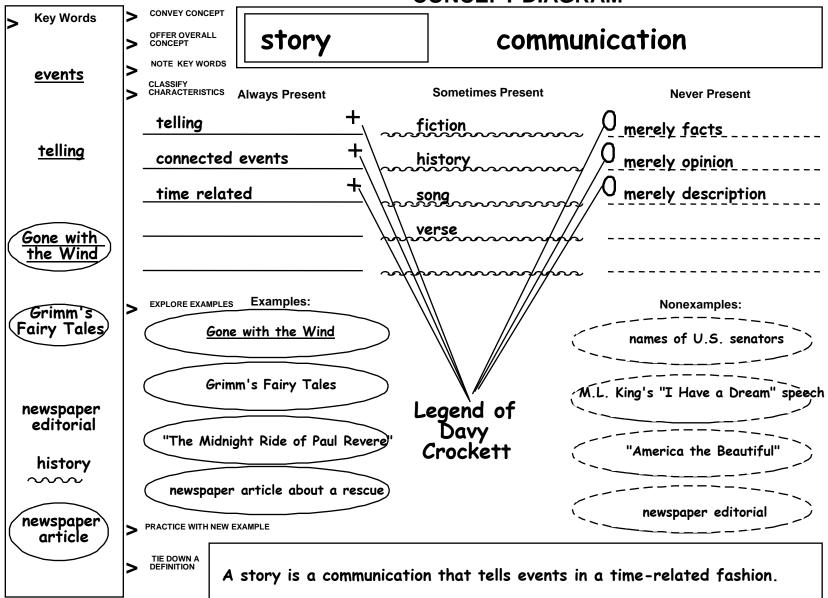
For example, for students classified as LD:

Number of "Big Idea" Course Questions Answered Correctly	Beginning of the Course	End of the Course
when teachers used COs	3/10	8/10
when teachers did not use COs	3/10	4/10

Content Enhancement Teaching Routines

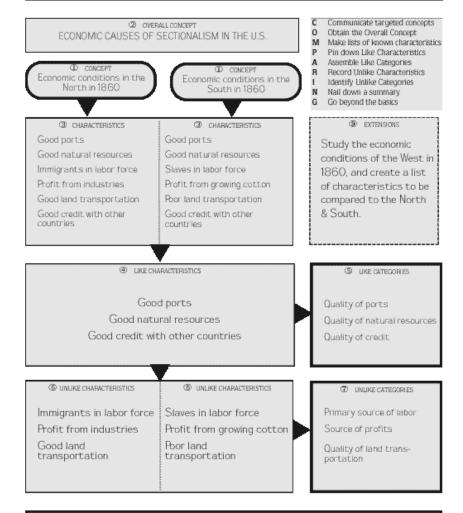
Teaching Concepts

- Concept Mastery Routine
- Concept Anchoring Routine
- Concept Comparison Routine



CONCEPT DIAGRAM

COMPARISON TABLE



(8) SUMMARY

Sectionalism in the U.S. was partially caused by economic conditions in the North and South in 1860. Although the North and South both had good natural resources, ports, and credit, their primary sources of labor and profits were different, as was the quality of their land transportation. Thus, these three differences probably contributed to sectionalism.

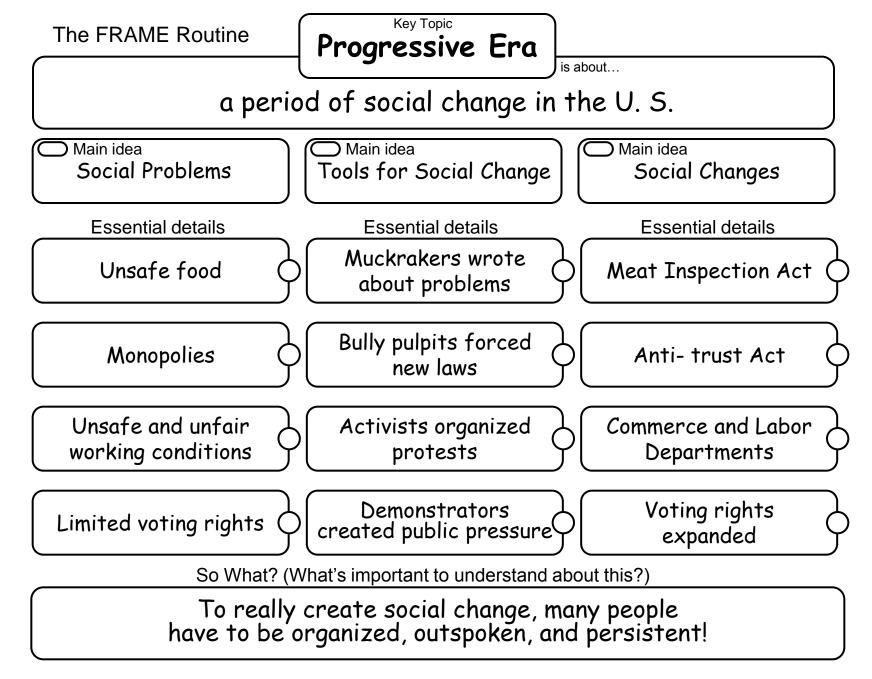
Example of Results: Concept Comparison Routine

 Students with LD and other low-achieving students gained an average of 15 to 24 percentage points on tests or tasks that required students to demonstrate understanding of concept comparisons.
 Teachers continued using the routine after the studies were completed.

Content Enhancement Teaching Routines

Explaining Text, Topics, and Details

- Framing Routine
- Survey Routine
- Clarifying Routine



Example of Results: The Framing Routine

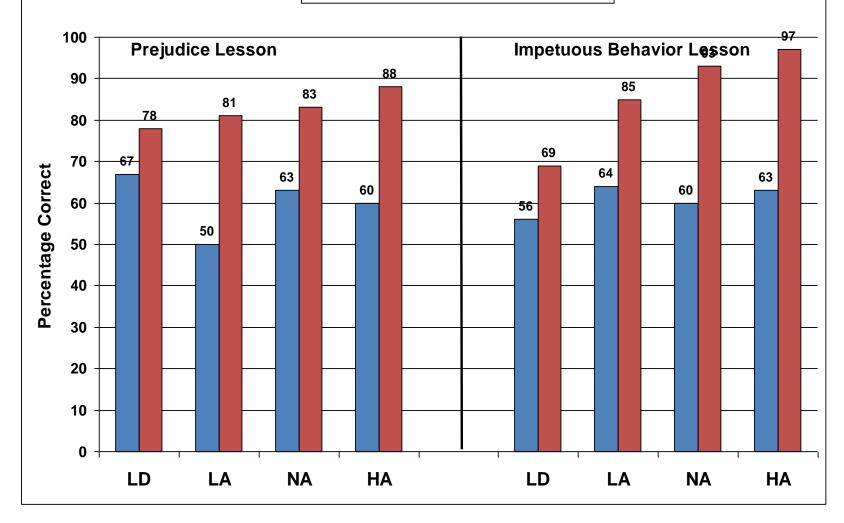
- The Framing Routine was studied in intermediate and secondary classes (grades 4-12) characterized by diversity.
- In each study, teachers learned the routine easily, and student learning gains were observed by teachers and researchers.
- Students gained an average of 10 to 15 percentage points on tests or tasks that required demonstration of mastery.
- Students' writing fluency increased dramatically. Students wrote an average of 96 more words on post-test writing tasks; ideation was significantly more coherent; mechanical errors reduced significantly.

Content Enhancement Teaching Routines Increasing Performance

- Quality Assignment Routine
- Question Exploration Routine
- Recall Enhancement Routine

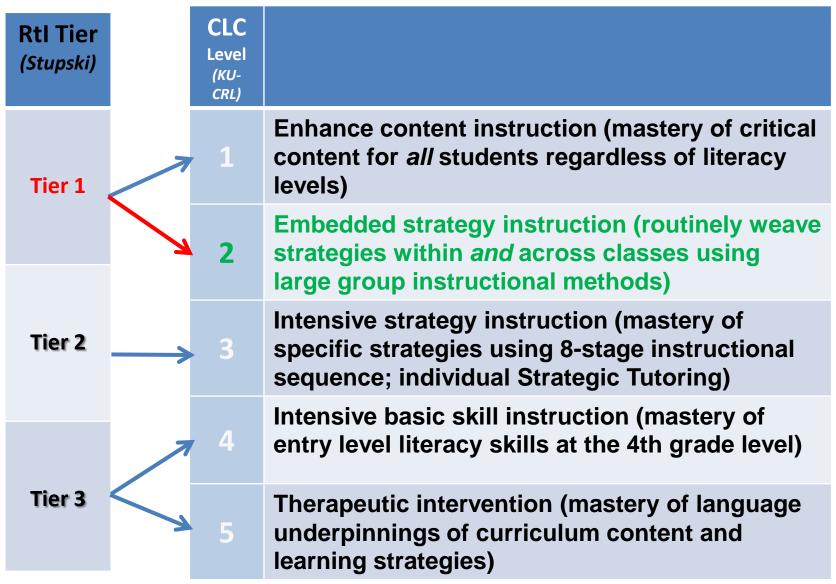
Example of Generalization Results: Question Exploration

Comparison group Experimental group



Let's look at Level 2 of the CLC, which is still Tier 1 of Rtl.

The RtI – CLC Connection



CLC 2/Rtl 1 : learning Strategies

- are explicit, step-based procedures for accomplishing specific thinking tasks.
- are useable across content areas and topics (usually).
- are taught through direct instruction.
- are practiced/used repeatedly within content area lessons.
- can benefit from Strategic Tutoring
- become fluent, metacognitively regulated, independent strategies.

Examples of Learning Strategies

Learning strategies for	Examples
 reading comprehension 	reciprocal teaching
•vocabulary	keywords mnemonics
•written expression	self regulated strategy development
•math	Solve It
 metacognition 	self-monitoring

Strategic Instruction Model (SIM)

(University of Kansas Center for Research on Learning)

Strategies Related to Reading

- Paraphrasing and Summarizing
- Inference Strategy
- Self-Questioning Strategy
- DISSECT

Strategies Related to Expressing Information

- Error Monitoring
- Sentence Writing
- Theme Writing

Strategies Related to Storing and Remembering Information

- First Letter Mnemonic Strategy
- LINCS Vocabulary Strategy
- Word Mapping Strategy

other categories of SIM strategies

- strategies related to demonstrating competence
- strategies related to social interaction
- strategies related to community building
- strategies related to motivation
- strategies related to math

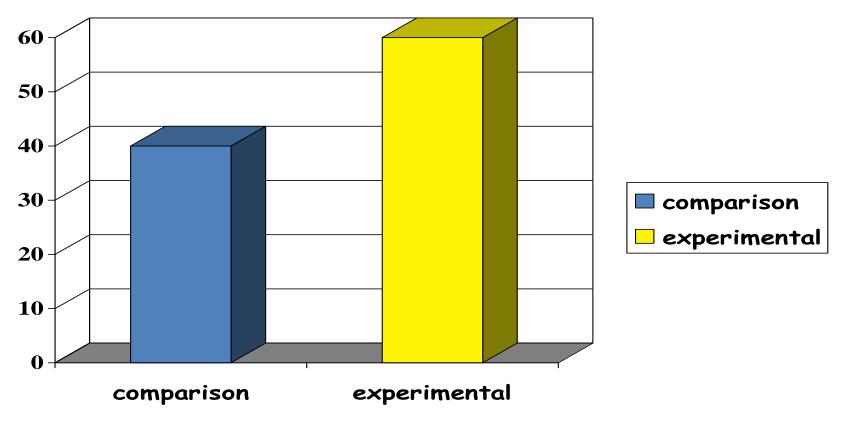
One KU-CRL Example:

The Inference Strategy

- Interact with the questions and the passage as you read.
- Note what you know.
- **F**ind the clues.
- Explore and supporting details.
- **R**eturn to the question.

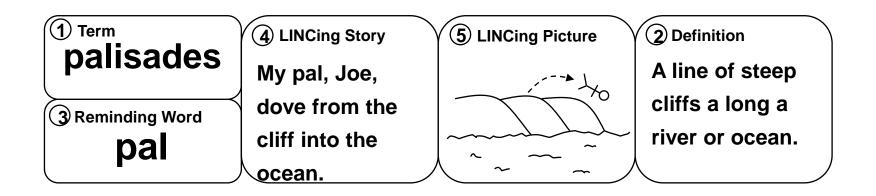


Another KU-CRL Example: Self-Questioning



7th Grade Science Class: Growth Scores (2001) (n=133)

Another example: The LINCing Vocabulary Strategy



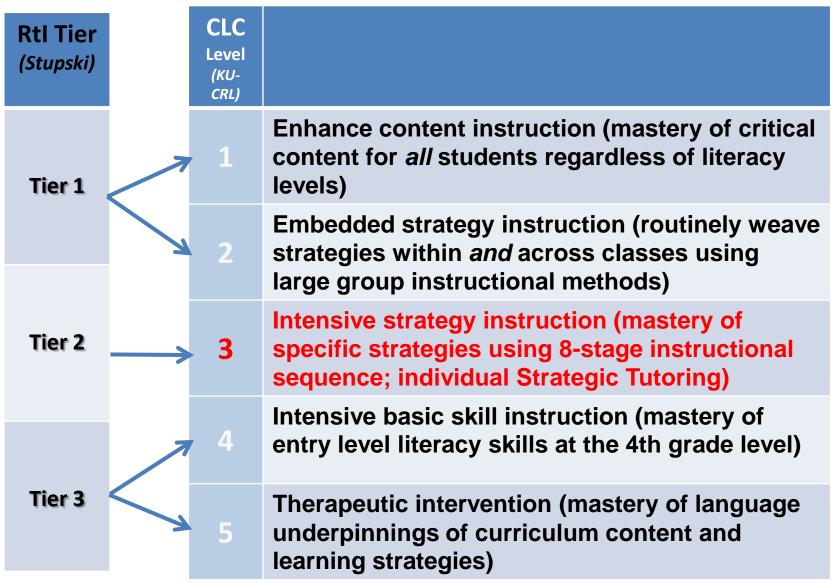
LINCS Results

Vocabulary test scores on chapter tests

 With<u>out</u> LINCS = 54%
 With LINCS = 89%

Let's look at Level 3 of the CLC, which is Tier 2 of Rtl.

The Rtl – CLC Connection



Level 3 of the CLC consists of

- more intense instruction on learning strategies through manipulation of variables such as
 - decreased number of strategies targeted at a time
 - increased time of instruction
 - decreased student-teacher ratio
 - use of Strategic Tutoring

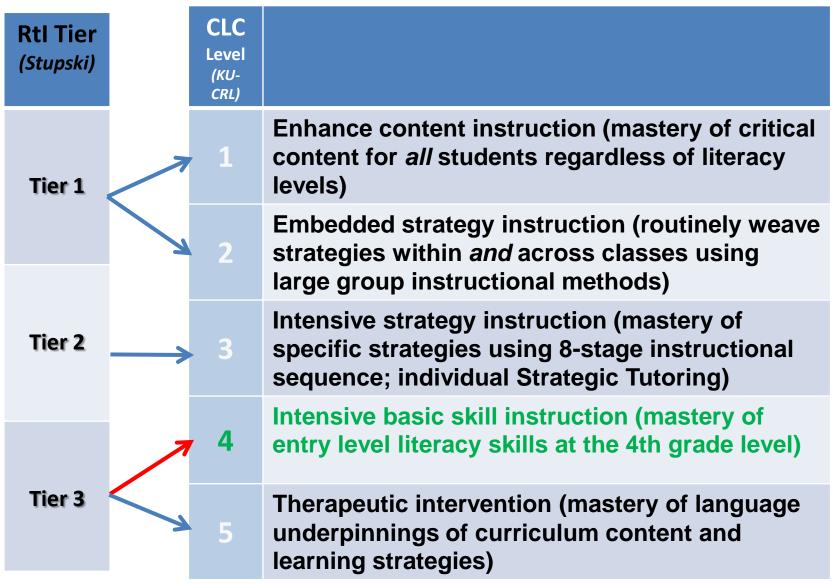
CLC Level 2 vs. Level 3

	CLC Level 2	CLC Level 3
INSTRUCTION	embedded	intensive
GROUPING	large – full class	small – select students
OUTCOME	content mastery and strategic learning	mastery / generalization of strategic learning
PRIMARY INSTRUCTOR	content teacher	support teacher
REINFORCEMENT INSTRUCTOR	support teacher	content teacher

(Source: University of Kansas Center for Research on Learning)

Let's look at Level 4 of the CLC, which is Tier 3 of Rtl.

The Rtl – CLC Connection



CLC Level 4: Provide more intensive intervention for those who need work on basic literacy elements

Students develop the foundational decoding, fluency, and comprehension skills through specialized, direct, and intensive instruction in reading. Intensive instruction in listening, speaking, and writing is often a part of these services.

<u>For example</u>: courses in researched-based reading programs such as the SRA Corrective Reading Program

Source: University of Kansas Center for Research on Learning)

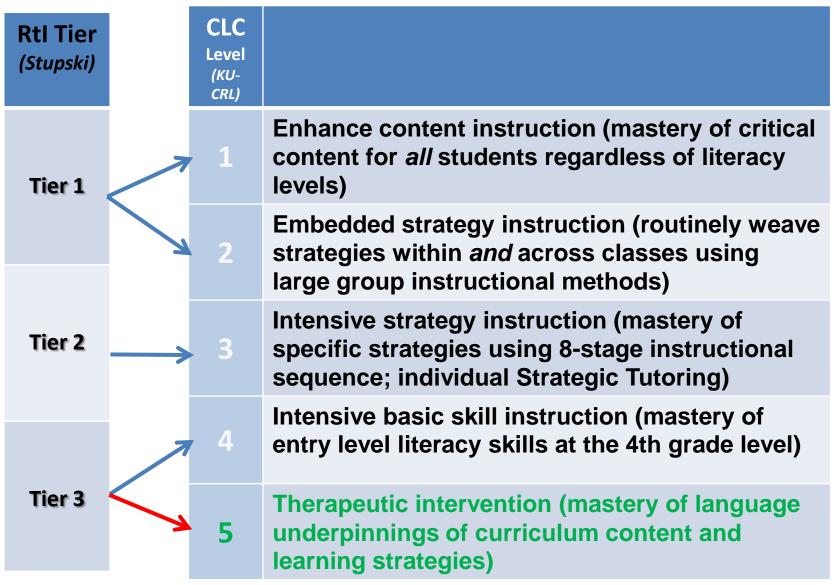
CLC Level 3 vs. Level 4

	Level 3	Level 4
INSTRUCTION	intensive on learning strategies	intensive on skills
GROUPING	small – select students	small – select students
OUTCOME	mastery and generalization of learning strategies	mastery of basic literacy skills
PRIMARY INSTRUCTOR	support teacher	support teacher
REINFORCEMENT INSTRUCTOR	content teacher	content teacher and specialist

Source: University of Kansas Center for Research on Learning

Let's look at Level 5 of the CLC, which is still Tier 3 of Rtl.

The Rtl – CLC Connection



CLC Level 5: an intensive clinical option for those who need it

Students with underlying language disorders learn the linguistic, related cognitive, metalinguistic, and metacognitive underpinnings they need to acquire content literacy skills and strategies.

For example: Speech-language pathologists engage students in curriculum-relevant therapy.

Source: University of Kansas Center for Research on Learning

The Stupski Foundation's Next Step

- To support wide-spread implementation of the KU-CRL Content Literacy Continuum, the Stupski Foundation developed *The Secondary Literacy Instruction Intervention Guide* (McPeak et al., 2007), which is available at
- <u>http://www.stupski.org/documents/Secondary_Literacy_Instruction_Intervention_Guide.pdf</u>

- The Secondary Literacy Instruction Intervention Guide (McPeak et al., 2007) includes
 - > a description of the Content Literacy Continuum (CLC)
 - a description of a comprehensive aligned instructional system (CAIS)
 - a SAMPLE three-year, district-wide 'roadmap' for implementing the secondary Content Literacy Continuum (CLC)
 - a detailed list of reading programs that could be used for Levels 3 through 5 of the Content Literacy Continuum, and
 - a list of screening and diagnostic tests commonly cited for secondary literacy students.

To be included in the Stupski list for Levels 3-5 of the CLC, a literacy program had to:

- ✓ address two or more of the five main components of reading as identified by the National Reading Panel
- ✓ target students in middle and high school grades (Grades 5-12)
- ✓ have independent, third-party research
- ✓ have research that is scientifically-based (randomized control groups) or meets the criteria for quasi-experimental research

Hence,

- the Secondary Literacy Instruction Intervention Guide (McPeak et al., 2007) is a useful resource for
 - guiding district or school implementation of the CLC
 - guiding selection of appropriate literacy programs for Rtl Tiers 2 and 3
 - identifying possible assessments to use

Questions?

Major Sources

- McPeak, L., Trygg, L., Minadakis, A., & Diana, P. (2007). The secondary literacy instruction and intervention guide: Helping school districts transform into systems that produce life-changing results for all children. Mill Valley, CA: The Stupski Foundation. Retrieved April 14, 2009 from <u>http://www.stupski.org/documents/Secondary_Literacy_Instruction_Intervent_ ion_Guide.pdf</u>
- The work of Lenz, Deshler, Schumaker and others of the Center for Research on Learning at the University of Kansas. For example, see

Lenz, B. K., Deshler, D., Schumaker, J.B., & Ehren, B.J. (2008). Content literacy continuum: Research on outcomes in secondary schools. Lawrence, KS: Center for Research on Learning – University of Kansas. Retrieved June 24, 2009 from http://smarttogether.org/outcomes/GatesReport.pdf