



WELCOME!

**Instructional Innovation:
Disciplinary Literacy in Math and
Science**

Education and Business Summit

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Gaye Irick and Rhett Nettles



Think and Ink:

**What is Disciplinary
Literacy?**

**Pair and
Share**



Why Disciplinary Literacy?





Fewer than 1 in 4 students meet all four
College Readiness Benchmarks
(English, Reading, Mathematics, and Science).

Only 53% meet the
Benchmark Score in Reading .

ACT, Inc., 2009



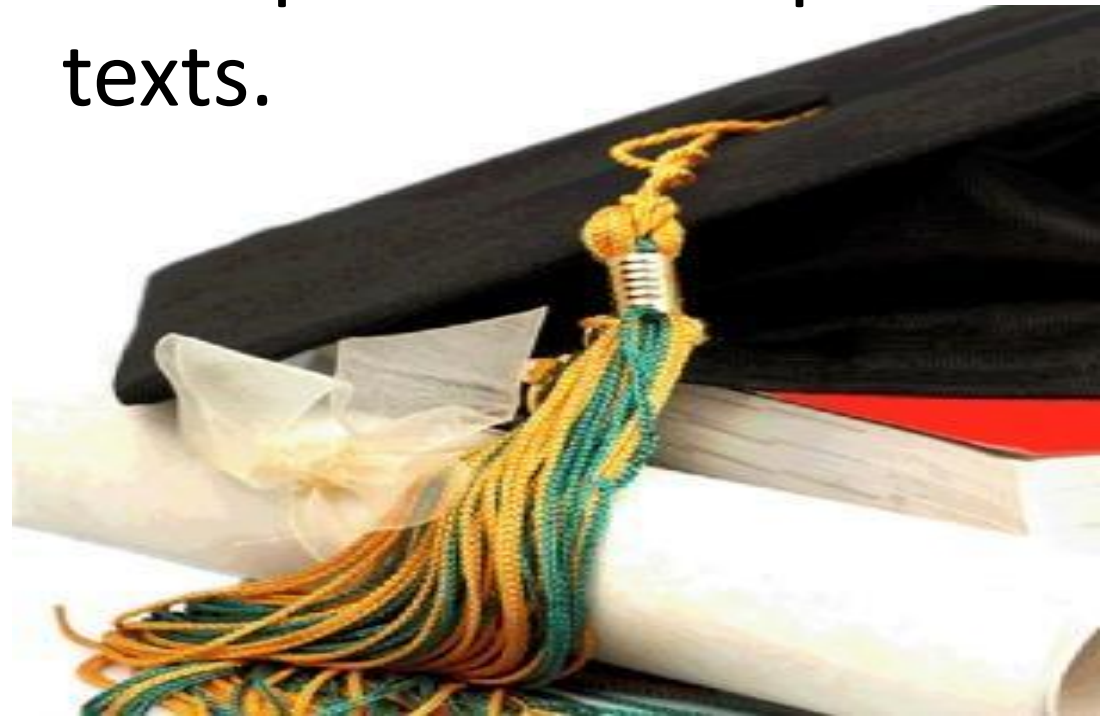
The reading demands of college,
workforce training programs, and
citizenship have risen
over the past fifty years.
At the same time, K-12 texts have
become less demanding.



National Governors Association
Center for Best Practices & Council of
Chief State School Officers, 2010

According to NAEP at the most advanced levels of reading, less than 10 percent of 17 year olds, regardless of race/ethnicity and socio economic status, are able to comprehend complex texts.

(Lee and Spratley, 2010)



Performance of the nation's 12th graders in reading has declined in comparison to 1992

(NAEP, 2005)

60% of 12th graders read at basic or below basic.

(NAEP, 2005)

42% of college students take remedial classes

(U.S. Department of Education, 2007)



“Students who experience reading difficulties in the early grades often suffer what has been called the ‘Matthew Effect’ (Stanovich, 1986), a gap between good and poor readers that widens through the grades.”

SEDL, 2000





Why Disciplinary Literacy?





Focus Question:

What is Disciplinary Literacy?

As you read the selected text, highlight or underline words and phrases that help you answer the focus question.



Strategy: Concept Mapping

Promotes the development of logical thinking by revealing connections that exist between words and concepts

Concept Mapping

[View Video](#)



Strategy: Concept Mapping

Use the words and phrases you selected from the text to create a concept map for disciplinary literacy



What have we learned?



Student Thinking and Dialogue

[View Video](#)



Something to Tweet about

- Think about what you learned about disciplinary literacy today.
- Develop a tweet response that summarizes your thoughts in no more than 140 characters.
- Share your tweet globally with #IQMS!

Think-Tweet-Share



FYI



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Contact: solutions@s2temsc.org
www.s2temsc.org

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