Common Core and Literacy Strategies: Mathematics, 2nd Edition

In Common Core and Literacy Strategies: Mathematics, 2nd Edition you'll explore how the Common Core State Standards (CCSS) approach literacy in new and important ways. You will see a new emphasis on critical thinking skills in the areas of arithmetic, word problems, and other mathematical foundations. Through video examples, in-depth readings, and downloadable applications, you'll learn practical ways to put CCSS to work in your classroom.

In the second edition of this course, emphasis is placed on literacy strategies used in the mathematics classroom at grades 6-12.

Course Objectives

By the end of this course, you will be able to

Module 1
- Define literacy and the Common Core State Standards and explain why they are important.
- Understand the need for literacy skills in all content areas.
- Identify ways that classroom teachers can embrace the Common Core State Standards to improve 21st century literacy in their classrooms.

Module 2
- Articulate the significance of text complexity in developing 21st century literacy.
- Incorporate new text selection criteria and a focus on complex texts into your classroom.
- Evaluate various strategies to use complex texts in the classroom to improve student learning.

Module 3
- Explain the connection between math reasoning and text comprehension.
• Use literacy strategies to improve mathematical reading as expressed in Common Core State Standards.

Module 4
• Explain how language, speaking, and listening skills contribute to strong math reasoning and problem-solving skills.
• Use literacy strategies in language, speaking, and listening to increase math reasoning.

Module 5
• Understand the role that reflection and writing play in improving mathematical skills.
• Incorporate literacy strategies in reflection and writing to increase mathematical skills.

Module 6
• Identify literacy problems for students who struggle with reading for a variety of reasons.
• Develop strategies that help special needs students develop literacy.
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- Video: A Six-Step Process for Teaching Vocabulary
- Reading 1: Developing Language Skills in Mathematics
- Reading 2: Developing Speaking and Listening Skills in Mathematics
- Reading 3: *EL*—Think Like a Seminar

### Module 5
**Literacy Strategies III: Writing and Reflection**
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- Video 1: Overview of the Math Standards
- Reading 1: Promoting Critical Writing and Reflection
- Video 2: Meaningful Mathematics: High School Data Analysis and Probability
- Reading 2: *EL*—Advanced Math? Write!
- Video 3: RAFT Assignments

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- Reading 3: *EL*—Teaching Reading in Math and Science
- Video: Reading Strategies in the Classroom
- Check for Understanding
- Application: Matching Math Texts with Strategies
- Module Journal
- Optional Resources for Further Engagement

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**Module 4**
**Literacy Strategies II: Language, Speaking, and Listening**
- Video: A Six-Step Process for Teaching Vocabulary
- Reading 1: Developing Language Skills in Mathematics
- Reading 2: Developing Speaking and Listening Skills in Mathematics
- Reading 3: *EL*—Think Like a Seminar
- Check for Understanding
- Application: Small-Group Problem-Solving
- Module Journal
- Optional Resources for Further Engagement

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- Module Welcome
- Video 1: Overview of the Math Standards
- Reading 1: Promoting Critical Writing and Reflection
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- Reading 2: *EL*—Advanced Math? Write!
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- Check for Understanding
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- Module Journal
- Optional Resources for Further Engagement
Module 6  |  Literacy for Students who Struggle in School

- Module Welcome
- Video 1: Meeting Students’ Needs
- Video 2: Put Yourself in Their Shoes
- Reading 1: Literacy for Students Who Struggle in School
- Reading 2: *EL*—The Power of Strategies Instruction
- Reading 3: *EL*—Teacher Skills to Support English Language Learners

Check for Understanding
- Application: Webquest - Literacy Strategies for Struggling Readers
- Module Journal

References


