# Common Core and Literacy Strategies: Mathematics

In *Common Core and Literacy Strategies: Mathematics,* 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.

## Course Objectives

After completing this course, you should be able to

**Module 1**

- Define literacy and the Common Core State Standards and identify their importance.

- 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**

- Understand what text complexity is and how it is determined.

- 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.

**Module 3**

- Understand 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.

## Course Syllabus

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| **Module 1** | **What Is the Common Core and Why Do We Need It?** |
| | Module Welcome |
| | • Online Video: Lily Eskelsen |
| | • Reading: *EL* — Building on the Common Core |
| | Check for Understanding Items |
| | • Reading: Literacy and the Common Core State Standards |
| | • Online Video: Literacy in Other Disciplines |
| | • Reading: *EL* — Reading through a Disciplinary Lens |
| | Check for Understanding |
| | • Application: Observe Literacy in Another Content Area |
| | Module Journal |
| **Module 2** | **Focusing on Complex Texts** |
| | Module Welcome |
| | • Reading: Understanding Text Complexity |
| | • Online Video: Introduction to Text Complexity |
| | Check for Understanding |
| | • Reading: *EL*—Too Dumb for Complex Texts |
| | • Online Video: The Gettysburg Address: A Curricular Exemplar in Literacy |
| | Check for Understanding |
| | • Application: Choosing and Using Complex Texts |
| | Module Journal |
| **Module 3** | **Literacy Strategies I: Text Features and Comprehension** |
| | Module Welcome |
| | • Reading: Fostering Deep Comprehension in the Math Classroom |

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| | • Reading: *EL* — Summarizing to Comprehend<br><br>• Reading: *EL* — Teaching Reading in Math and Science<br><br>Check for Understanding<br><br>• Application: Matching Math Texts with Strategies<br><br>Module Journal |
| **Module 4** | **Literacy Strategies II: Language, Speaking, and Listening**<br><br>Module Welcome<br><br>• Online Video: Shift 6: Academic Vocabulary<br><br>• Reading: Developing Language Skills in Mathematics<br><br>• Video: Brain Compatible Learning: Math Strategies<br><br>• Reading: Developing Speaking and Listening Skills in Mathematics<br><br>• Reading: *EL* — Thinking is Literacy, Literacy is Thinking<br><br>Check for Understanding<br><br>• Application: Small-Group Problem Solving<br><br>Module Journal |
| **Module 5** | **Literacy Strategies III: Writing and Reflection**<br><br>Module Welcome<br><br>• Reading: Promoting Critical Writing and Reflection<br><br>• Reading: *EL* — For the Sake of Argument<br><br>• Reading: *EL* — Putting Gel Pen to Paper<br><br>• Video: The Lesson Collection: Reading/Writing Discussion<br><br>• Video: The Lesson Collection: Interactive Writing<br><br>• Video: Writing Strategies: Prewriting at the Secondary Level<br><br>Check for Understanding<br><br>• Application: Designing a Lesson Plan for Writing |

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| | Module Journal |
| **Module 6** | **Literacy for Students who Struggle in School**<br><br>Module Welcome<br><br>• Reading: Literacy for Students who Struggle in School<br><br>• Reading: *EL* — The Day Reading Became Play<br><br>• Reading: *EL* — The Power of Strategies Instruction<br><br>Check for Understanding<br><br>• Online Video: SHIFT 3: Staircase of Complexity<br><br>• Reading: *EL* — Teacher Skills to Support English Language Learners<br><br>Check for Understanding<br><br>• Application: Designing Literacy Activities for Struggling Readers<br><br>Module Journal |

## Resources

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