Course Description
Routines can keep your classroom running smoothly. Now imagine having a set of routines focused not on classroom management, but on helping students develop their mathematical thinking skills. Routines for Reasoning provides expert guidance for weaving the Standards for Mathematical Practice into your teaching by harnessing the power of classroom-tested instructional routines.

This course will cover instructional routines to help students develop their mathematical thinking. For each of the seven chapters, there is a quiz. To pass the course, each quiz must be passed with an 80% score. This is not an overall average of all test scores, but rather on each chapter quiz. Be sure to thoroughly study the chapters in order to be prepared for taking the quizzes. Upon completion of the Chapter 7 quiz, you have finished the course. There are no assignments or papers.

Grace Kelemanik, Amy Lucenta, and Susan Janssen Creighton have applied their extensive experience teaching mathematics and supporting teachers to crafting routines that are practical teaching and learning tools, including:

- Capturing Quantities: encouraging abstract and quantitative reasoning
- Connecting Representations: noticing and using mathematical structure
- Recognizing Repetition: developing repeated reasoning skills
- Three Reads: starting and sustaining thinking in problem solving situations

Each routine provides a familiar, accessible structure that supports repeated use until the steps to follow, thinking skills to employ, and questions to ask become automatic-enabling all students to engage more fully in learning opportunities while building crucial mathematical thinking habits.

Course Objectives
The student will learn about four instructional routines that can be used to foster the mathematical practices in all students.

Chapter 1
Focus: Using the Math Practices as a Means to Provide Access to Rich Mathematical Reasoning

Quiz 1
Chapter 2
Focus: Instructional Routines: A Vehicle for Developing Mathematical Practices in All Students
   Quiz 2

Chapter 3
Focus: Capturing Quantities: An Instructional Routine to Support Students Reasoning Abstractly and Quantitatively
   Quiz 3

Chapter 4
Focus: Connecting Representations: An Instructional Routine to Support Students Thinking About and with Mathematical Structure
   Quiz 4

Chapter 5
Focus: Recognizing Repetition: An Instructional Routine to Support Students’ Repeated Reasoning
   Quiz 5

Chapter 6
Focus: Three Reads: An Instructional Routine to Support Students Entering and Sustaining Thinking in a Problem
   Quiz 6

Chapter 7
Focus: Making It Routine: Implementing Instructional Routines
   Quiz 7

Materials
You will need to purchase:

Possible vendors
   Amazon
   Heinemann Publishing

Grading
   Required Scores for Passing each test:
<table>
<thead>
<tr>
<th>Quiz</th>
<th>Points</th>
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<tbody>
<tr>
<td>Quiz 1</td>
<td>5</td>
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<td>Quiz 7</td>
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