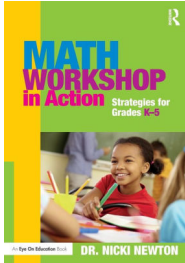


Math Workshop in Action (k-5)



Instructor: Dr. Nicki Newton

Email: drnickicourses@gmail.com

Office Hours: Virtual office hours are by appointment. We can meet through virtual face to face conference or by phone. Email me for an appointment.

Required Text/Materials:

1. Math Workshop in Action by Dr. Nicki Newton
2. Links will be provided throughout the course for suggested readings and activities

Course Description: Math Workshop in Action is a course designed to teach teachers how to set up a Math Workshop model in their classroom. Throughout the course we will discuss the specifics of setting up, implementing and evaluating Math Workshop. The sessions will follow the chapters in the book.

Course Goals/Student Learning Outcomes: The goal of this course is that teachers fully understand and can implement a Math Workshop by the end of the course. Teachers should be able to describe what it is, how to do it, how to organize the classroom, how to manage the different rotations, how to implement the structure of Math Workshop with their current curriculum and how to assess students in Math Workshop and to evaluate their effectiveness in using this instructional strategy.

Instructional Methods: Throughout this course we will use a variety of instructional methods, including mini-lectures, discussions, readings and videos. Each module is taught through a video. There are also some additional links that are added to the syllabus.

Grading: Your grade will be based on the following percentages:
You must get at least 75% to pass the class.

Introductory post/Preassessment on Math Workshop – Describing your class currently. Reflecting on how a Math Workshop Model helps to create an overall balanced approach to mathematics instruction.	20%
Online Quizzes – Quizzes on various modules throughout the course	25%
Final Exam –Math Workshop Exam	30%
Completion of all modules	25%

Important Dates: You have 90 days to complete the course upon initiation of the course.

Academic Integrity: Please make sure that all your work is your own. You are expected to do your own work and not plagiarize from the work of others. The work is to be reflective of the theories and concepts that we study and the implementation with your class.

Module 1– 1.5 hour*	<p>Introduction ESSENTIAL QUESTIONS: What is Math Workshop? Video: https://www.youtube.com/watch?v=XOjoG1Lxe1o</p> <p><i>Reflection: What are the components of math workshop? Which parts of those are you currently using in your class? Which parts might you try adding right away?</i></p>
Module 2– 1.5 hour*	<p>Living and Learning Together ESSENTIAL QUESTIONS: How do we create a vibrant, respectful, engaging math environment? Videos: Look at Examples of Daily Routines: https://hcpss.instructure.com/courses/124/pages/routines https://hcpss.instructure.com/courses/9414/pages/grade-1-routines https://hcpss.instructure.com/courses/106/pages/grade-2-routines https://hcpss.instructure.com/courses/97/pages/routines https://hcpss.instructure.com/courses/107/pages/routines https://hcpss.instructure.com/courses/108/pages/routines</p>

	<p>Reflection: <i>What is so important about the First 20 Days? What part of this do you currently do? What do you need to work on?</i></p>
Module 3– 1.5 hour*	<p>Managing the Workshop ESSENTIAL QUESTIONS: How do we manage Math Workshop? Videos: 1 example: https://www.youtube.com/watch?v=JRTbkwnoz1M https://www.youtube.com/watch?v=ZzCmNQRmk6s https://www.youtube.com/watch?v=iOR_8wRq4Ug</p> <p>Reflection: <i>What are the key elements to think about when planning for the management of Math Workshop?</i></p>
Module 4– 1.5 hour*	<p>The Opening part 1 ESSENTIAL QUESTIONS: What are the elements of the first part of Math Workshop? Videos Reflection: <i>What happens specifically in the Introduction? What happens in the Student Activity Section? What happens during the Debrief?</i></p>
Module 5– 1.5 hour*	<p>The Opening part 2: Mini Lessons ESSENTIAL QUESTIONS: What makes a powerful mini-lesson? Videos Reflection: <i>What are the different types of mini-lessons? Which ones do you currently use? Which ones might you add to your teaching repertoire?</i></p>
Module 6– 1.5 hour*	<p>Meaningful Engagement ESSENTIAL QUESTIONS: How do we make sure that all aspects of math workshop are engaging, standards based and academically rigorous? Videos: What Happens in Workstations? https://www.youtube.com/watch?v=GXV7F1rmumw https://www.youtube.com/watch?v=z3x05LuPrGM https://www.youtube.com/watch?v=ay4JE5sLcl https://www.youtube.com/watch?v=vZGtBuqAddS Reflection: <i>How do we promote student engagement? How do students know what the math is that they are working on? Why is this important? What makes math lessons and activities rigorous?</i></p>
Module 7– 1.5 hour*	<p>Guided Math Groups ESSENTIAL QUESTIONS: What are guided math groups? Video: https://www.youtube.com/watch?v=IWh8vrQw0_o https://www.youtube.com/watch?v=mG_JNU3v0PA https://www.youtube.com/watch?v=YB--FU2JEOc https://www.youtube.com/watch?v=XxrhJJe-DOA Reflection: <i>What is the framework for a guided math group? How do you determine which students to pull? What is the purpose of using guided math?</i></p>

Module 8– 1.5 hour*	<p>The Share</p> <p>ESSENTIAL QUESTIONS: What is the structure of the Share?</p> <p>Videos</p> <p><i>Reflection: What happens during the share? What is the role of the teacher? What is the role of the students? What preparation happens beforehand to provide the framework for a good share time?</i></p>
Module 9– 1.5 hour*	<p>Balanced Assessment</p> <p>ESSENTIAL QUESTIONS: What is balanced math assessment?</p> <p>Links:</p> <p>http://hgse.balancedassessment.org/</p> <p>https://www.thecurriculumcorner.com/thecurriculumcorner123/2014/07/student-data-binder/</p> <p><i>Reflection: What are the components of a balanced assessment approach to math? Which ones do you currently emphasize in your classroom? Which ones do you want to work on?</i></p>
Module 10– 1.5 hour*	<p>Action Planning</p> <p>ESSENTIAL QUESTIONS: What are my immediate steps for getting started?</p>

*Each module will be 1.5 hours including videos, reflection, discussion and external links to readings and videos

Main Text: Math Workshop in Action: Strategies for Grades K-5 (2015, Newton)

Additional Resources: Throughout the course there are several links with additional information. These links are also shown here on the syllabus.

Discussion Board: There is a discussion board in the course. Students are encouraged to contribute to the ongoing discussion of the course.

Materials: Book

Examples of Quizzes

Module 7

1. Describe the framework of a guided math lesson.
2. What are necessary components of the beginning of the lesson?
3. What are the necessary components of the end of the lesson?
4. What do we mean by the cycle of engagement?
5. How do we assess mathematical disposition throughout the lesson?

Module 9

1. What do we mean by balanced mathematical assessment?
2. What are the components of balanced mathematical assessment?
3. Name 3 different types of formative assessment.
4. Name 3 different types of summative assessment.
5. What is the difference between a teacher data binder and a student data binder?