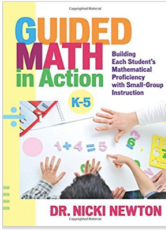


## Guided Math in Action (k-2) (3-5)



Instructor: Dr. Nicki Newton

Email: [drnickicourses@gmail.com](mailto: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. Guided Math in Action by Dr. Nicki Newton
2. Links will be provided throughout the course for suggested readings and activities

**Course Description:** Guided Math in Action is a course designed to introduce the teaching of elementary math through small guided math groups. Throughout the course we will discuss the specifics of setting up, implementing and evaluating small group instruction. 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 Guided Math 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 guided math rotations, how to implement the structure of guided math with their current curriculum and how to assess students in guided math groups 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.

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

Introductory survey & Preassessment – Describing your class currently. Thinking about how a guided math approach can improve instruction for all students.	25%
Online Quizzes – Quizzes on various modules throughout the course	25%
Final Project – Guided Math 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 QUESTION How does guided math help us to differentiate instruction for all students? Videos: <a href="https://guidedmath.wordpress.com/what-is-guided-math/">https://guidedmath.wordpress.com/what-is-guided-math/</a></p> <p><b>Reflection:</b> What is guided math? Why do we do it with all students?</p>
Module 2– 1.5 hour*	<p>Math Environment ESSENTIAL QUESTION What does the overall Math Workshop look like? What is the place of guided math? Videos: <a href="https://www.youtube.com/watch?v=XOjoG1Lxe1o">https://www.youtube.com/watch?v=XOjoG1Lxe1o</a> <a href="https://www.youtube.com/watch?v=mG_IjNU3v0PA">https://www.youtube.com/watch?v=mG_IjNU3v0PA</a> <a href="https://www.youtube.com/watch?v=YB--FU2JE0c">https://www.youtube.com/watch?v=YB--FU2JE0c</a> <a href="https://www.simplyskilledinsecond.com/2016/09/guided-math-all-things-organization/?utm_source=Blog&amp;utm_medium=guided-math-all-things-organization&amp;utm_campaign=guided-math">https://www.simplyskilledinsecond.com/2016/09/guided-math-all-things-organization/?utm_source=Blog&amp;utm_medium=guided-math-all-things-organization&amp;utm_campaign=guided-math</a></p> <p><b>Reflection:</b> What are the various components of Math Workshop? How does guided math fit into this model?</p>

<p>Module 3– 1.5 hour*</p>	<p>Math Toolkits  ESSENTIAL QUESTION How do you use concrete and digital tools during Guided Math Groups?  Videos  <a href="https://guidedmath.wordpress.com/2014/08/25/math-toolkits-part-1/">https://guidedmath.wordpress.com/2014/08/25/math-toolkits-part-1/</a>   <a href="https://guidedmath.wordpress.com/2014/08/27/math-toolkits-part-2-primary-toolkits/">https://guidedmath.wordpress.com/2014/08/27/math-toolkits-part-2-primary-toolkits/</a>   <a href="https://www.youtube.com/watch?v=jlcyI711ycE">https://www.youtube.com/watch?v=jlcyI711ycE</a>  Link: <a href="https://guidedmath.wordpress.com/tag/math-toolkits/">https://guidedmath.wordpress.com/tag/math-toolkits/</a>  <b>Reflection:</b> <i>What are some key concrete tools to use during guided math lessons? What are some key digital tools to use during guided math lessons?</i></p>
<p>Module 4– 1.5 hour*</p>	<p>Schedules/Anchor Charts/Management  ESSENTIAL QUESTION How do you organize the management of guided math groups?  Links:  <a href="https://www.simplyskilledinsecond.com/2016/05/get-your-groove-on-with-guided-math/">https://www.simplyskilledinsecond.com/2016/05/get-your-groove-on-with-guided-math/</a>  <b>Reflection:</b> <i>What are the key components of management for guided math groups?</i></p>
<p>Module 5– 1.5 hour*</p>	<p>Grouping  ESSENTIAL QUESTION How do I determine my groups?  Links:  <a href="https://www.simplyskilledinsecond.com/2016/05/get-your-groove-on-with-guided-math/">https://www.simplyskilledinsecond.com/2016/05/get-your-groove-on-with-guided-math/</a>  <b>Reflection:</b> <i>How do you use data to determine your groups? What do we mean by flexible grouping?</i></p>
<p>Module 6– 1.5 hour*</p>	<p>5 Elements of Guided Math  ESSENTIAL QUESTION What are the 6 Elements that frame Math Workshop and Guided Math Groups?  Links  <b>Reflection:</b> <i>How does data drive instruction inform grouping? What is the role of differentiation? How do you scaffold for success throughout the lesson? What do we mean by standards-based, engaging, academically rigorous lessons?</i></p>
<p>Module 7– 1.5 hour*</p>	<p>The Guided Math Framework  ESSENTIAL QUESTION What is the framework for a Guided Math Lesson?  Links</p>

	<p><b>Reflection:</b> <i>What happens at the beginning of the lesson? What happens in the middle and then at the end of the lesson? Why are the opening and closing just as important as the hands-on work?</i></p>
Module 8– 1.5 hour*	<p>5 Formats for Guided Math Lessons  ESSENTIAL QUESTION What are the 5 Formats for a Guided Math Lesson?  Links  <b>Reflection:</b> <i>What is a procedural lesson? What is a conceptual lesson? What is a reasoning lesson? What is a strategic competence lesson? How do you work on mathematical disposition throughout the guided math lesson?</i></p>
Module 9– 1.5 hour*	<p>Diving Deeper into the 5 Types of Guided Math Lessons  ESSENTIAL QUESTION What is the cycle of engagement during the lesson?  Links  <b>Reflection:</b> <i>How do you use the cycle of concrete, pictorial and abstract in guided math lessons?</i></p>
Module 10– 1.5 hour*	<p>Action Planning  ESSENTIAL QUESTION 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

Readings: Guided Math in Action: Building Each Student’s Mathematical Proficiency with Small Group Instruction (2013, 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 2

1. What is math workshop?
2. What are the primary components of math workshop?
3. How is the mini-lesson connected to the guided math lesson?
4. How is the guided math lesson connected to the workstations?
5. When and in what ways do students get to debrief about what they are learning during math workshop?

### Module 3

1. Why are toolkits so important in guided math groups?
2. What are some important tools that should be part of the classroom toolkit?
3. What are the different components of the toolkit?
4. Name some important templates that go in the k-2 toolkit. Name some important templates that go in the 3-5 toolkit.
5. Name some important tools that go in the k-2 toolkit. Name some important tools that go in the 3-5 toolkit.