Instructor: Beth Lloyd, Ph.D.
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Office Phone: 953-7432
Email: LloydB@cofc.edu
Office Hours: Wed: 9-11:45 am; Thurs: 1:30-3:45 pm; or by appointment
Email Hours: Mon: Latest check and response 4 pm
Home Hours: Mon: 10-4; call: 843.873.8090; if not home, leave a message with #

Course Description:
This course focuses on the alliance of factual knowledge, procedural proficiency, and conceptual understanding. The parallels of learner development and the progressive nature of mathematics content standards are explored. Teacher candidates will study the elements necessary to help PK-8 students achieve high-quality mathematics instruction.

More specifically, in accordance with SC State, Common Core, and National Standards, teacher candidates will explore numbers and operations, geometry, measurement, data analysis and probability, and algebra. Problem solving, reasoning, multiple representations, connections, and communication are stressed throughout the course coverage of these content areas, facilitating the development of deep conceptual understanding. At the successful completion of the course, teacher candidates will be equipped to teach their future elementary- and middle-school students in a variety of ways such that their students understand mathematics procedures and why mathematics concepts make sense.

Required Text:
❖ Hardcover (used hardcover: $75.00) and paperback available - purchase 4th Edition

❖ Available online at www.nctm.org (100-day free trial)

Recommended Text:
❖ Used copies available online for about $3.00 (good resource, but not drawn on in class)

Additional Sources: Additional readings and/or information will be drawn from, but not limited to, the following sources.


Course Requirements:

Demonstration of SOE Dispositions

Examples of how dispositions are evident are provided in italics.

- Belief that all students can learn, *participation and attitudes expressed about students and learning*
- Value and respect for individual differences, *interactions in class discussions and participation in group work*
- Value of positive human interactions, *participation in class and in group work*
- Exhibition and encouragement of intellectual curiosity, enthusiasm about learning, and willingness to learn new ideas, *participation in class and group discussions and performance on assessments*
- Dedication to inquiry, reflection, and self-assessment, *participation in class and group discussions; performance on assessments (especially the reading and course reflections assignments)*
- Value of collaborative and cooperative work, *thoughtful, constructive critiques of others’ work, participation in class activities*
- Sensitivity toward community and cultural contexts, *participation in class and group discussions, tolerating, discussing, and respectfully listening to differing points of views*
- Engagement in responsible and ethical practice, *performance on assessments, class attendance, and participation in group activities*
- Development of professional mastery over time, *performance over time in writing, thinking, and expression of knowledge*

Utilization of Computer Applications (Available in the CofC managed computer labs located in JC Long, Library, and other campus sites. If unfamiliar with these applications, set up a time for tutoring with me.)

- Internet
- Word processing
- OAKS

Completion of all assigned readings and assignments **ON TIME.**

See Course Assignments below for detailed descriptions.

Responsibility for **ALL** course content

Including lecture, text, outside reading, handouts, research, etc.

Responsibility for keeping up with grades and attendance

If you miss a class, ask a classmate for the missed assignments and notes.

Course Assignments:

Due dates for course assignments, as well as scheduled exams, are listed on the tentative daily schedule at the end of the syllabus. Any changes will be announced in class or posted on OAKs. All assignments must be turned in during the class on the date due. If, for medical or serious personal reasons, an assignment is late, the instructor should be informed of the reasons. Otherwise, **each late course assignment – excluding classwork assignments and journal entries – will receive a FIVE-PERCENT deduction per day that it is late. Classwork assignments and journal entries will not be accepted late. DO NOT give assignments to School of Education personnel. Assignments will NOT be accepted via email (unless specified explicitly).**

All assignments must be typed and follow APA style guidelines, unless otherwise specified.

Reading Reflection Entries (4)

To maximize the development of how to teach mathematics, it is imperative that TCs engage in their readings. Some of the readings will be addressed in class, but due to the vast body of pertinent literature in this field, some of the topics covered in the out-of-class readings will not. Therefore, to ensure active
engagement with the readings and maximum knowledge gained from this course, TCs will be responsible for reflecting on readings throughout the semester.

There are four reading reflective entries due throughout the course of the semester. Entries must be submitted to the dropbox in OAKS by the start of class on the date indicated on the daily schedule. Failure to submit on time will result in a loss of credit.

Each entry should be labeled: “ENTRY #: CHAPTER or CHAPTER SECTIONS”
Each entry should have the following:
1. A succinct outline or summary of each chapter section. (2 points)
2. A quotation from each section (properly cited – authors, year, p. #/pp. #–#)
3. Reflections on each of the quotations. How do they affect TCs thinking about teaching, learning, and/or future practices. Reflections should include descriptions of “AHA!” moments, topics for which TCs are confused, how topics connect to the 2-6 classrooms (refer to “Connections to the PreK-8 Classroom,” “Analyzing a Textbook Page,” and “Analyzing Student Work” segments), and topics that are of particular interest or concern to TCs (elaborating on why of interest or concern). DO NOT SUMMARIZE A QUOTATION; THIS IS NOT A REFLECTION. (quotations & reflections: 4 points)
4. One question per chapter that ties in multiple main ideas from the chapter. The question should get at the heart of the main themes being conveyed in the reading.
5. A thorough answer to the question. (questions and answers: 2 points)

Like with all written assignments, TCs should follow APA formatting. ½ point will be deducted if improper APA formatting or grammatical errors.

Homework Assignments (2)
In addition to reading reflections, to maximize the development of mathematical thinking, it is important that the TCs engage in the actual mathematics being described both in their readings and in class. As such, throughout the semester, there will be content-based mathematics problems given from the class text, online resources, and materials provided during class. I will collect homework two times throughout the semester (due dates indicated on the schedule). Each collection should include the homework assignments assigned up to the due date. Depending on the number of problems per collection, I may spot check.

Classwork Assignments (8)
Throughout the semester, TCs will be asked to complete assignments necessary for class discussion. Each assignment is indicated on the daily schedule. If materials are required for completing the assignments, they will be given the class prior to the assignment’s due date.

Tests: Midterm & Final
TCs will be expected to complete two tests: a midterm and final. Material on these summative assessments comes from (1) in-class lectures, discussions, and activities and (2) out-of-class readings and assignments. (Test dates are indicated on the schedule.)

Standards Project
In pairs or groups of 3 (depending on the size of the class), TCs will sign up to examine one of the five NCTM Content Standards (number & operations, measurement, geometry, data analysis & probability, and algebraic thinking) throughout the first three NCTM grade bands (Early Childhood Grade Band, covering PK-2; Elementary Grade Band, covering grades 3-5; Middle Grade Band, covering grades 6-8). TCs will also examine the SC and Common Core Standards that align with their NCTM Content Standard. In order to fully examine their content standard, I expect each pair/group to:
• Familiarize themselves with the NCTM, SC, and Common Core Standards, understanding the expectations, objectives, indicators, etc. for each grade or grade band. (The language and breakdown is different for each set of standards.)
• Through this familiarization, articulate how children develop their mathematical thinking with regard to the specified content standard.
• Describe clearly how the standard translates into classroom practice. This is to be achieved in three ways:

(1) reading *Principles and standards*, reviewing the Common Core Standards (http://www.corestandards.org/the-standards/mathematics), and reviewing the SC State Standards (http://ed.sc.gov/agency/Standards-and-Learning/Academic-Standards/old/cso/standards/math/),
(2) reviewing and obtaining appropriate activities from either the journal *Teaching children mathematics (TCM)* or the journal *Mathematics Teaching in the Middle School (MTMS)* (must go to library for this – not all issues available online – 2004 to present), and
(3) interviewing/observing and obtaining appropriate activities from practicing teachers.

• Because “the mathematical Content and Process Standards…are inextricably linked,” describe how the Process Standards are integrated into implementations of the content standard (NCTM, 2000, p. 7).
• Each pair/group will be responsible for obtaining the following corresponding to the group content standard. (TCs can either divvy these up or collect together. Whichever, in the final write up, TCs must indicate who was responsible for each activity so that I can accurately assess each TC.)

  Early Childhood TCs (PK – 2) must obtain two activities:
  (1) Grades 1-2 activity from a teacher; and
  (2) Grades 1-2 activity from *TCM*

  Elementary TCs (2 – 5) must obtain four activities:
  (1) Grades 2-3 activity from a teacher;
  (2) Grades 2-3 activity from *TCM*;
  (3) Grades 4-5 activity from a teacher;
  (4) Grades 4-5 activity from *TCM*

  Middle Grades TCs (6 – 8) must obtain two activities:
  (1) Grades 6-7 activity from a teacher;
  (2) Grades 6-7 activity from *MTMS*;

The intent of this project is to familiarize TCs with the Standards, to help them understand how to implement standards into classroom practice (better understanding what makes a good standards-based, well-aligned assignment), and to help them understand how children develop their mathematical thinking from PK through grade eight. Pragmatically, I want TCs to begin collecting detailed activities that span the Content Standards and grade bands so when they leave my class they do not have to start from scratch.

At the completion of our class coverage of a given content standard (number & operations, measurement, geometry, data analysis & probability, and algebraic thinking), the pair/group which was assigned to that content area will:
• Teach a lesson on the development of student thinking from PK-8 in that given area. (In teaching this, they may consider having the class attempt to order particular expectations/indicators, ask questions about what classmates think fall within the content standard, provide a timeline of what is covered in each grade, etc.). TCs are expected to reveal how the NCTM, SC, and Common Core Standards differ in their descriptions of the development of mathematical thinking. Last semester, a group used a Venn diagram to convey this. It was excellent. I DO NOT WANT TO SEE THE STANDARDS CUT AND PASTED INTO PPP SLIDES.
• During the lesson, the group will demonstrate three activities – (1) 1st/2nd grade, (2) 3rd/4th/5th grade, and (4) 6th/7th grade exemplifying to their classmates the development of mathematical thinking within the given content area. Each of the group members should contribute equally in the facilitation of the lessons. This will require some out-of-class preparation.
Each group member will have the opportunity to assess the contributions of the other group members. Both the demonstration and peer assessment will be figured into each TC’s Standards Project grade.

Note that while not indicated on the schedule, TCs should (1) work on this project throughout the semester and (2) read chapters three through six in the *Principles and standards for school mathematics*.

**Presentation:** See Schedule for Due Date; **Shared Lessons:** Due to PBWorks 4/16; **Write Up:** Due 4/16

**Participation and Attendance**

**Participation**

During class, there will be a number of activities. TCs will be expected to participate in these activities (periodically collected at the completion of class) and in general class discussions. In order to earn credit for classwork activities and discussions, TCs **must be present**. There is one MANDATORY SATURDAY session – the final exam date.

**EDEE Attendance Policy**

**Excessive absences (i.e., more than 15% - approximately 5 hours/2 classes - may result in receiving a “WA/F.”)** Students will be tardy if they arrive in class within the first 20 minutes after class has started. Three tardies result in one absence. Students will be absent if they arrive after 20 minutes or if they leave class early. Regarding being tardy or having to leave class early, exceptions will be made on an individual basis, but students must speak with me about extenuating circumstances for such exceptions. Regarding absences, if a student exceeds allowable absences due to extenuating circumstances beyond the student’s control, a panel of professors from that semester will review the circumstances and make a final decision.

If a student exceeds allowable absences due to extenuating circumstances beyond the student’s control, a panel of professors from that semester will review the circumstances and make a final decision. **SNAP students**, if they wish special accommodations, must see the professor within the first two weeks of the course or as soon as they find out about potential accommodations if determined mid semester. **Athletes** who will miss class due to athletic events must see the professor within the first two weeks of the course and submit athletic schedule for the semester, identifying classes that will be missed. No other absences will be allowed for athletes who miss the maximum allowable absences due to athletic events.

**Written and Oral Communication**

TCs are expected to use correct grammar at all times. Points will be deducted on written assignments for grammatical errors. All references must follow the American Psychological Association (APA) Guidelines for Term Papers. Writing Lab is located on the first floor of Addlestone Library (Monday through Thursday 9:00 am to 9:00 pm and Friday 9:00 am to noon). Further, it is imperative that TCs use correct grammar in all oral communication, especially during field experiences. Classroom teachers, student peers, and I will collaborate to eliminate all oral grammatical errors, using an approach of constructive criticism.

**Evaluation**

It will be possible to earn 200 points during the semester. They will be distributed as follows:

- **Reading Reflection Entries (4)** 8 points each, 32 points total (16%)
- **Homework Assignments (2 Collections)** 12 points each, 24 points total (12%)
- **Classwork Assignments (8)** 3 points each, 24 points total (12%)
- **Midterm (1)** 30 points (15%)
- **Final (1)** 30 points (15%)
- **Standards Project** 40 points (20%)
- **Presentation** 6 points
Shared Lessons/Activities on PBWorks 4 points
Write Up 30 points
Participation and Attendance 20 points (10%)

Evaluation Scale
<table>
<thead>
<tr>
<th>Letter Grades</th>
<th>Percentage Range</th>
<th>Grade Points</th>
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</thead>
<tbody>
<tr>
<td>A</td>
<td>91-100%</td>
<td>4.0</td>
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<tr>
<td>B+</td>
<td>89-90%</td>
<td>3.3</td>
</tr>
<tr>
<td>B</td>
<td>84-88%</td>
<td>3.0</td>
</tr>
<tr>
<td>C+</td>
<td>82-83%</td>
<td>2.3</td>
</tr>
<tr>
<td>C</td>
<td>77-81%</td>
<td>2.0</td>
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<tr>
<td>F</td>
<td>≤76%</td>
<td>0.0</td>
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</tbody>
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Respectful Conduct
TCs are expected to be respectful and considerate of one another. Cell phones should be turned off while in class. Laptops should only be used in class if they are facilitating the development of mathematical thinking; if they appear to be a distraction, I will ask that they be put away. **Disrespectful conduct will result in a loss of participation points.**

CofC Honor System
Lying, cheating, attempted cheating, and plagiarism are violations of our Honor Code that, when identified, are investigated. Each incident will be examined to determine the degree of deception involved. Incidents where the instructor determines the student’s actions are related more to a misunderstanding will handled by the instructor. A written intervention designed to help prevent the student from repeating the error will be given to the student. The intervention, submitted by form and signed both by the instructor and the student, will be forwarded to the Dean of Students and placed in the student’s file.

Cases of suspected academic dishonesty will be reported directly by the instructor and/or others having knowledge of the incident to the Dean of Students. A student found responsible by the Honor Board for academic dishonesty will receive a XF in the course, indicating failure of the course due to academic dishonesty. This grade will appear on the student’s transcript for two years after which the student may petition for the X to be expunged. The student may also be placed on disciplinary probation, suspended (temporary removal) or expelled (permanent removal) from the College by the Honor Board.

Students should be aware that unauthorized collaboration—working together without permission—is a form of cheating. Unless the instructor specifies that students can work together on an assignment, quiz and/or test, no collaboration during the completion of the assignment is permitted. Other forms of cheating include possessing or using an unauthorized study aid (which could include accessing information via a cell phone or computer), copying from others’ exams, fabricating data, and giving unauthorized assistance. Research conducted and/or papers written for other classes cannot be used in whole or in part for any assignment in this class without obtaining prior permission from the instructor.

Students can find the complete Honor Code and all related processes in the *Student Handbook* at [http://studentaffairs.cofc.edu/honor-system/studenthandbook/index.php](http://studentaffairs.cofc.edu/honor-system/studenthandbook/index.php)

ADA Accommodations
In compliance with the Americans Disabilities Act (ADA), all qualified students are entitled to “reasonable accommodations.” Any students requiring accommodations should contact the Center for Disability Services (953-1431) and provide me with documentation of needed accommodations within the first two weeks of the course or as soon as they find out about potential accommodations if determined mid semester.
Course Objectives
All teacher preparation programs in the College of Charleston’s School of Education (SOE) are guided by a commitment to the conceptual framework of “Making the Teaching and Learning Connection.” Three elements of teacher competency are fundamental to this framework; teachers must (1) understand and value the learner, (2) know what and how to teach and assess within a conducive learning environment, and (3) understand themselves as professionals. In addition, these competencies are foundational to the learning and assessments within this course, facilitating the development of knowledge, skills, and dispositions necessary for becoming an effective teacher.

Below are the specific end-of-course outcomes related to these teacher competencies. They are derived from the standards set forth by the National Council of Measurement in Education (NCME) and relate to those of the (1) School of Education (SOE), (2) National Council for Accreditation of Teacher Education (NCATE), (3) National Association for the Education of Young Children (NAEYC), and (4) National Middle School Association (NMSA). They, therefore, indicate the expectations for teacher candidates within the School of Education, early childhood teachers, elementary-grades teachers, and middle-grades teachers.

1. Teacher candidates (TCs) will develop the understanding of how students learn to construct mathematical ideas from the concrete early childhood experiences through the development of abstract thinking abilities in young adolescence.
   SOE I; NCATE 1; NAEYC 4b; NMSA 1.K1, 1.P2, 1.P4, 5.K4

2. TCs will articulate a vision of school mathematics that supports access of all students to a curriculum that emphasizes important mathematical concepts; effective and engaging research-based instructional practices; and high expectations with appropriate accompanying accommodations.
   SOE II, III; NCATE 2d, 3d; NAEYC 4b; NMSA 1.D3, 5.D7

3. TCs will convey an appreciation for the discipline of mathematics including its history and the contributions of diverse cultures to the field.
   SOE II, VII; NCATE 2d; SC4 (diverse learning styles)

4. TCs will articulate the knowledge that mathematics curriculum must be coherent and focused on important useful concepts that are connected within the discipline and across disciplines.
   SOE II; NCATE 2d, 2i, 3a; NAEYC 4b; NMSA 4.K2

5. TCs will recognize the importance of the role of student ideas, interests, and needs in the design, implementation, and evaluation of mathematically-based learning experiences.
   SOE I; NCATE 2d, 3a, 3d; NAEYC 4b; NMSA 3.K5, 3.D4, 4.P3; SC 4 (diverse learning styles)

6. TCs will demonstrate an understanding of the need for a variety of instructional strategies to effectively address developmental, ability and learning style needs of PK-8 students exhibiting diversity in its many forms.
   SOE III; NCATE 4; NAEYC 1, 4b; NMSA 1.P5, 1.P10, 4.K3, 5.K2; SC 4

7. TCs will develop the knowledge of, and dispositions that value, ongoing, systematic, formal, and informal assessment as an integral part of instruction that guides and enhances learning.
   SOE VI; NCATE 4; NAEYC 3, 4b; NMSA 1.P6, 5.K8, 5.D5, 5.P4, 6(all)

8. TCs will communicate about and through mathematics verbally and in writing using both everyday language and mathematical representations.
   SOE II; NCATE 2d, 3e; NAEYC 4b; NMSA 4.K4, 4.D4, 4.P5
9. TCs will demonstrate knowledge of the organization of the content standard areas of number and operations, algebra, geometry, measurement, data analysis and probability within the PK-8 mathematics curriculum as prescribed by the NCTM and the SC Standards.
SOE II; NCATE 2d; NAEYC 4b; NMSA 4, 6.K5; SC 7

10. TCs will demonstrate the value and integrative nature of the process standards of problem solving, reasoning, communication, connections, and representations within the PK-8 mathematics curriculum as prescribed by the NCTM and the SC Standards.
SOE II; NCATE 2d, 3c; NAEYC 4b, 4c; NMSA 4, 5.K3, 5.P2, 6.K5; SC 7

11. TCs will demonstrate competency in, and an understanding of the value of, a breadth and depth of mathematical knowledge and skills that extend beyond the level for which the TC is preparing.
SOE II; NCATE 2d; NMSA 4.K1, 4.P2
<table>
<thead>
<tr>
<th>Date</th>
<th>Topic</th>
<th>Readings &amp; Assignments to be completed for the given class</th>
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<tbody>
<tr>
<td>1/12</td>
<td>• Course overview</td>
<td>• Syllabus</td>
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<tr>
<td></td>
<td>• Beliefs about mathematics</td>
<td>• Computer lab (reserved 5 – 7 PM)</td>
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<td>• Doing mathematics</td>
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<td>• SC, Common Core, and NCTM Standards (45 min)</td>
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<td>• Standard project sign up</td>
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<td>• Closure: Learning Styles Video</td>
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<tr>
<td>1/19</td>
<td>• Problem solving: Pizza problem</td>
<td>• Read Ch. 1 and 2.1</td>
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<td></td>
<td>• Reasoning</td>
<td>• Begin working on Reading</td>
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<td></td>
<td>• Communicating</td>
<td>• Reflection Entry 1</td>
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<td></td>
<td>• Sets and whole numbers</td>
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<td></td>
<td>• Assign HW #1 problems: Chs. 1-7</td>
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<tr>
<td>1/26</td>
<td>• Warm Up: Review of <em>Everyday mathematics</em> procedures</td>
<td>• Read 2.2, 2.3, 3.3, &amp; 3.4</td>
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<td>• Addition and subtraction of whole numbers</td>
<td>• Assignment 1: Read <em>Everyday</em> mathematics article; take notes on and be prepared to explain the procedures</td>
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<td>• Multiplication and division of whole numbers</td>
<td>• Cont. working on Reading</td>
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<td>• Closure: Video of student (if time)</td>
<td>• Reflection Entry 1</td>
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<td>• Assign HW #1 problems: Chs. 1-7</td>
<td>• HW #1</td>
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<tr>
<td>2/2</td>
<td>• Numeration systems: XMANIA</td>
<td>• Reading Reflection Entry 1 Due: Chs. 2 &amp; 3</td>
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<td></td>
<td>• <strong>Independently:</strong> Number sense, mental math, estimation, &amp; rounding (included in RR #1)**</td>
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<tr>
<td>2/9</td>
<td>• <strong>Independently:</strong> Factors and divisibility, Prime and composite numbers, &amp; GCF and LCM</td>
<td>• Read Chs. 4 &amp; 5</td>
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<td></td>
<td>• Warm up: GCF, LCM, and number theory problems from <em>Relearning mathematics</em></td>
<td>• Assignment 2: Complete handout for Ch. 4</td>
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<td>• Integers: notes and peer demonstrations</td>
<td>• Assignment 3: Take notes on the different models of +/-x integers; be ready to demonstrate to class</td>
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<td>• Assessment (if time about 30 min is ideal) - Packet</td>
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<td>2/16</td>
<td>• Rational number system (60 min)</td>
<td>• Reading Reflection Entry 2 Due: Chs. 6 &amp; 7</td>
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<td>• Converting repeating decimals to fractions &amp; Ch. 7 problems (50 min)</td>
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<td>• Addition and subtraction with fractions (40 min)</td>
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<tr>
<td>2/23</td>
<td>• Multiplication and division with fractions: lecture and group work</td>
<td>• Catch up on readings: Chs. 1-7</td>
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<td>• Find activities in <em>TCM or MTMS</em></td>
<td>• Work on HW #1 – Due Friday to my mailbox by noon; I will place back in my mailbox by Wednesday at noon</td>
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<td>• Assign HW #2 problems: Chs. 8 - 13</td>
<td>• Study for Midterm</td>
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<td>3/1</td>
<td>• Midterm</td>
<td>• Assignment 4: Complete MPG problems</td>
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<td>• Give out MPG problems (can do after midterm or on own time before 3/15 class)</td>
<td>• Number and Operations Standard Presentations Due</td>
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<td>3/8</td>
<td>• <strong>SPRING BREAK – NO CLASS</strong></td>
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<td>3/15</td>
<td>• Warm up: MPG discussion</td>
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<td>• Fraction Activity Zones</td>
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<td>Date</td>
<td>Activity</td>
<td>Due Date</td>
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<tr>
<td>3/22</td>
<td><strong>The Development of “Number and Operations” Thinking</strong></td>
<td><strong>Read Ch. 8</strong>&lt;br&gt;<strong>Assignment 5 &amp; 6: Complete Ch. 8 PPP and Case Study</strong> (not officially due until next class but wanted to break up work load)</td>
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<td><strong>Data Analysis &amp; Probability: Complete data analysis handout, review probability handout, review data analysis case study, and work on Chs. 8 &amp; 9 book problems</strong></td>
<td><strong>Read 9.1, 9.2, &amp; 9.4</strong>&lt;br&gt;<strong>Assignment 7: Ch. 9 Handout</strong>&lt;br&gt;<strong>Data Analysis and Probability Standard Presentations Due</strong></td>
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<td><strong>The Development of “Data Analysis and Probability” Thinking</strong></td>
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<td>3/29</td>
<td><strong>Geometry: Origins of the Pyth. Thm.; Quadrilaterals (A, S, &amp; N); Tessellations; Transformations; Polygons; Triquad Concept Attainment Lesson (closure)</strong></td>
<td><strong>Read Chs. 10 &amp; 11</strong>&lt;br&gt;<strong>Reading Reflection Entry 3 Due: Chs. 10 &amp; 11</strong>&lt;br&gt;<strong>Geometry Standard Presentations Due</strong></td>
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<td><strong>The Development of “Geometric” Thinking</strong></td>
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<td>4/5</td>
<td><strong>Integrating the curriculum (30 min): literature, history, technology, etc.</strong></td>
<td><strong>Read Ch. 12</strong>&lt;br&gt;<strong>Measurement Standard Presentations Due</strong></td>
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<td><strong>Measurement: A few notes &amp; Activity stations</strong></td>
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<td><strong>The Development of “Measurement” Thinking</strong></td>
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<tr>
<td>4/12</td>
<td><strong>Warm up: Discussion of Praxis example (15 min)</strong></td>
<td><strong>Assignment 8: Praxis example</strong>&lt;br&gt;<strong>Read 13.1</strong>&lt;br&gt;<strong>Reading Reflection Entry 4 Due: Ch. 12 &amp; 13.1</strong>&lt;br&gt;<strong>Algebra Standards Presentations Due</strong>&lt;br&gt;<strong>Extra Credit: Pike’s Theorem</strong> (nice connection between geometry, measurement, and algebra)&lt;br&gt;<strong>Synopsis of The Development of Mathematical Thinking (one per group) – Email to me</strong>&lt;br&gt;<strong>HW #2 Due; will return to my mailbox by 5 pm on Friday</strong></td>
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<td><strong>Algebra</strong></td>
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<td><strong>The Development of “Algebraic” Thinking</strong></td>
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<td>4/14</td>
<td><strong>Final</strong></td>
<td><strong>Study for Final</strong>&lt;br&gt;<strong>THIS IS A SATURDAY</strong></td>
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<td>2-4 PM</td>
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<td>4/16</td>
<td><strong>Standards Project Write Up Due to my box by 3 pm; Activities posted to PBWorks by 5 pm</strong></td>
<td><strong>Standards Project Due</strong>&lt;br&gt;<strong>Activities Posted to PBWorks</strong>&lt;br&gt;<strong>THIS IS A MONDAY</strong></td>
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