

Name of Unit/Course:		
Overall Unit Information (Required for MOOC participants)		Self-Check
Unit or Course Goal(s)	In this course students will be able to demonstrate the ability to solve two-step word problems using addition and subtraction. They will also solve multiplication and division problems within 100. This is a blended learning course where students will learn face-to-face and engage in online learning as well.	See A1
Standards	<p>Name of standards: Mathematics Georgia Standards of Excellence Link to standards: https://www.georgiastandards.org/Georgia-Standards/Documents/Grade-K-5-Mathematics-Standards.pdf Location information: Pages 25-26 Grade/Year: 3rd/(8-9 years old) Subject: Mathematics</p> <p>Standard (as written): MGSE3.OA.3 Use multiplication and division within 100 to solve word problems in situations involving equal groups, arrays, and measurement quantities, e.g., by using drawings and equations with a symbol for the unknown number to represent the problem. MGSE3.OA.8 Solve two-step word problems using the four operations. Represent these problems using equations with a letter standing for the unknown quantity. Assess the reasonableness of answers using mental computation and estimation strategies including rounding. (***Note: I only used the addition and subtraction operations for this standard due to the fact that the Third Grade Mathematics Teaching & Learning Framework for Cobb County only suggests these two operations for the first quarter unit.)</p>	See A2

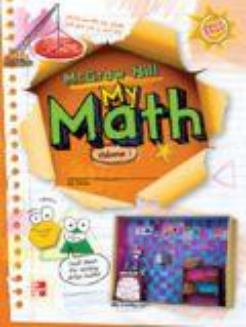
K-12 Blended and Online Learning

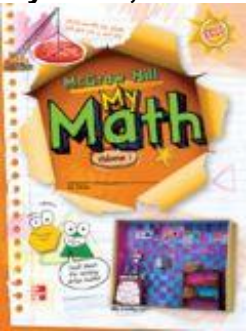
Learner Characteristics	<p>These learners are 3rd graders in a suburban Georgia elementary school.</p> <p>Non-native English speakers: 14%</p> <p>Special Education or IEP: 10% of students</p> <p>Countries: Students represent more than 3 different countries</p> <p>SES: 64% students live in low socio-economic homes</p> <p>Testing: 2nd grade does not have major testing such as the GA Milestones, most students met the requirements for general math education to prepare for 3rd grade</p>	See B1
Technology requirements	<ul style="list-style-type: none"> • Dell Laptops/Desktops (provided by school) • Access to the Internet 	See D5
Prerequisite Skills	<ul style="list-style-type: none"> • PC computer use skills • Problem solving skills • Able to add and subtract 	See A4 & D6
Introductory Communication Plans	<p>Students are expected to participate in a weekly discussion forum where they will post and respond to their peers. Every student is required to reach out to the instructor with any questions or concerns related to class. All student language should be appropriate for all learning contexts (please be kind and thoughtful of others!). Students are expected to follow the communication rules outlined in the syllabus and taught at the beginning of the school year. Consequences will be enforced if failure to comply.</p>	See A4 B9 & B10
Universal Design Principles Considered	<p>Multiple forms of representation: videos, textbook, vocabulary, webpages</p> <p>Multiple forms of expression: problem-solving, creating own word problems, quizzes</p> <p>Multiple forms of engagement: discussion forums, smartboard activities, online content related learning tools such as Edpuzzle</p>	See B4
Number of Modules or Weeks	<p>This will be a six-week blended learning unit. Each week will start on Monday with lessons and assignments to engage in and complete by Friday.</p>	See A3

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Module 1 Plan (Note: “module” and “lesson” used interchangeably) (Required for MOOC participants)		Self-Check
Module Objective(s)	Students will solve two-step word problems using addition with 85% accuracy. (MGSE3.OA.8) They will practice identifying vocabulary terms and key words to support solving two-step word problems. Students will determine the unknown quantity in an equation.	See A1 & A2
Module Assessment(s)	<ol style="list-style-type: none"> 1. Exit Ticket or Think-Pair-Share 2. Discussion forum: Why is it important to identify key terms in a word problem? What are some words that give you hints on how to solve word problems using addition? 3. Create 3 of your own two-step word problems using addition. Please make sure that your word problems make sense and that you can properly solve them as well. 	See A2 A3 C1 C2 & C5
Description of Learning Activities	<ol style="list-style-type: none"> 1. Introduction/E.Q. What is addition? What are two-step word problems? How can I solve a two-step word problem using addition? 2. Topic related video clip 3. Model examples with class 4. Online learning tools to engage students 5. Independent work 6. Discussion forums for students to participate in 	See A2 A3 B3 B4 & B10
Formative Evaluation & Feedback	We will have a midweek conference to discuss how students are feeling/doing with learning and class assignments. Students can also share goals that they would like to reach and discuss steps that they can take to reach their goals.	See A3 C1 C3 & C5

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<p>Physical Learning Materials</p>	<p>My Math, Grade 3 McGraw-Hill 2013 - Students will have a physical copy for class and can also access the book online when they are home.</p> 	<p>See A3, A9, B1, B4, & B6</p>
<p>Digital Learning Objects</p>	<ul style="list-style-type: none"> • Discussion Forums for student participation - Padlet • Introduction/Ongoing Learning - Adobe Spark, Brain Pop Jr, Edpuzzle • Interactive Learning/Assessments - SMART Exchange, Kahoot • My Math, Grade 3 McGraw-Hill 2013 https://connected.mcgraw-hill.com/connected/login.do 	<p>See A3, A9, B1, B4, & B6</p>
<p>Plans for Differentiation</p>	<ol style="list-style-type: none"> 1. If students are unable to physically write (such as using an Exit Ticket) they can record their answers audibly. 2. Students who may struggle with typing (such as participating in discussions on Padlet) can share their thoughts/answers through video or audio recording. 3. Read & Write for Google Chrome will be used to support any student with a disability or English Language Learner. 4. When working together, students will be carefully placed in groups that build on individual strengths and facilitate growth among weaknesses. 5. Students with IEP will be accommodated as suggested. 	<p>See B1 B4 & B6</p>

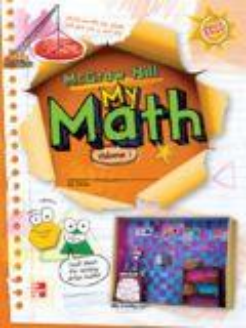
Module 2 Plan (Optional for MOOC participants)		Self-Check
Module Objective(s)	Students will solve two-step word problems using subtraction with 85% accuracy. (MGSE3.OA.8) They will practice identifying vocabulary terms and key words to support solving two-step word problems. Students will determine the unknown quantity in an equation.	See A1 & A2
Module Assessment(s)	<ol style="list-style-type: none"> 1. Discussion forum: What are some words that give you clues to solve word problems using subtraction? 2. Think-Pair-Share or Exit Ticket 3. Create 3 of your own two-step word problems using subtraction. Please make sure that your word problems make sense and that you can properly solve them as well. 	See A2 A3 C1 C2 & C5
Description of Learning Activities	<ol style="list-style-type: none"> 1. Introduction/E.Q. What is subtraction? 2. Topic related video clip 3. Model examples with class 4. Online learning tools to engage students 5. Independent work 6. Discussion forums for students to participate in 	See A2 A3 B3 B4 & B10
Formative Evaluation & Feedback	There will be a midweek conference to discuss strengths and challenges of learners. Students will evaluate themselves and receive feedback from what the instructor has also evaluated the student on. We will discuss future goals and strategies to meet those goals.	See A3 C1 C3 & C5
Physical Learning Materials	<p>My Math, Grade 3 McGraw-Hill 2013</p> 	See A3, A9, B1, B4, & B6

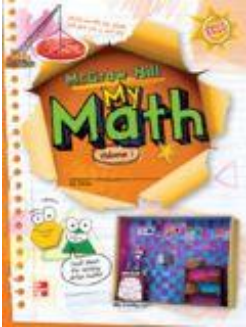
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<p>Plans for Differentiation</p>	<ol style="list-style-type: none"> 1. If students are unable to physically write (such as using an Exit Ticket) they can record their answers audibly. 2. Students who may struggle with typing (such as participating in discussions on Padlet) can share their thoughts/answers through video or audio recording. 3. Read & Write for Google Chrome will be used to support any student with a disability or English Language Learner. 4. When working together, students will be carefully placed in groups that build on individual strengths and facilitate growth among weaknesses. 5. Students with IEP will be accommodated as suggested. 	<p>See B1 B4 & B6</p>

Module 3 Plan (Optional for MOOC participants)		Self-Check
Module Objective(s)	Students will solve two-step word problems using addition and subtraction with 85% accuracy. (MGSE3.OA.8) They will practice identifying vocabulary terms and key words to support solving two-step word problems. Students will determine the unknown quantity in an equation.	See A1 & A2
Module Assessment(s)	<ol style="list-style-type: none"> 1. Exit Ticket or Think-Pair-Share 2. Discussion forum: How can reading a two-step word problem incorrectly effect the answer? 3. Plickers (Students will take a quick digital assessment to demonstrate their mastery of solving two-step word problems using addition and subtraction) 	See A2 A3 C1 C2 & C5
Description of Learning Activities	<ol style="list-style-type: none"> 1. Introduction/E.Q. What is the difference between subtraction and addition? 2. Topic related video clip 3. Model examples with class 4. Online learning tools to engage students 5. Independent work 6. Discussion forums for students to participate in 	See A2 A3 B3 B4 & B10
Formative Evaluation & Feedback	We will continue with midweek conferences. Teacher will share " Glow & Grow " with student covering the past two weeks of working on solving two-step word problems using addition and subtraction. Results of assessments will also be discussed by the end of the week.	See A3 C1 C3 & C5

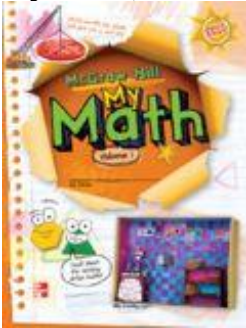
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<p>Physical Learning Materials</p>	<p>My Math, Grade 3 McGraw-Hill 2013</p> 	<p>See A3, A9, B1, B4, & B6</p>
<p>Digital Learning Objects</p>	<ul style="list-style-type: none"> • Discussion Forums for student participation - Padlet • Introduction/Ongoing Learning - Adobe Spark, Brain Pop Jr, Edpuzzle • Interactive Learning/Assessments - SMART Exchange, Kahoot • My Math, Grade 3 McGraw-Hill 2013 https://connected.mcgraw-hill.com/connected/login.do 	<p>See A3, A9, B1, B4, & B6</p>
<p>Plans for Differentiation</p>	<ol style="list-style-type: none"> 1. If students are unable to physically write (such as using an Exit Ticket) they can record their answers audibly. 2. Students who may struggle with typing (such as participating in discussions on Padlet) can share their thoughts/answers through video or audio recording. 3. Read & Write for Google Chrome will be used to support any student with a disability or English Language Learner. 4. When working together, students will be carefully placed in groups that build on individual strengths and facilitate growth among weaknesses. 5. Students with IEP will be accommodated as suggested. 	<p>See B1 B4 & B6</p>

Module 4 Plan (Optional for MOOC participants)		Self-Check
Module Objective(s)	Students will solve multiplication problems within 100 with 85% accuracy. (MGSE3.OA.3) They will practice using equal groups, arrays, drawings and equations with a symbol for the unknown number to represent the problem.	See A1 & A2
Module Assessment(s)	<ol style="list-style-type: none"> 1. Discussion forum: Multiplication can also be known as repeated_____? What are some words that give you hints on how to solve problems using multiplication? 2. Create 3 of your own word problems using multiplication. Please make sure that your word problems make sense and that you can properly solve them as well. Exit Ticket or Think-Pair-Share 	See A2 A3 C1 C2 & C5
Description of Learning Activities	<ol style="list-style-type: none"> 1. Introduction/E.Q. What is multiplication? How can I solve a word problem using multiplication? 2. Topic related video clip 3. Model examples with class 4. Online learning tools to engage students 5. Independent work 6. Discussion forums for students to participate in 	See A2 A3 B3 B4 & B10
Formative Evaluation & Feedback	We will have a midweek conference to discuss how students are feeling/doing with learning and class assignments. Students can also share goals that they would like to reach and discuss steps that they can take to reach their goals.	See A3 C1 C3 & C5
Physical Learning Materials	<p>My Math, Grade 3 McGraw-Hill 2013</p> 	See A3, A9, B1, B4, & B6

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<p>Digital Learning Objects</p>	<ul style="list-style-type: none"> • Discussion Forums for student participation - Padlet • Introduction/Ongoing Learning - Adobe Spark, Brain Pop Jr, Edpuzzle • Interactive Learning/Assessments - SMART Exchange, Kahoot • My Math, Grade 3 McGraw-Hill 2013 https://connected.mcgraw-hill.com/connected/login.do 	<p>See A3, A9, B1, B4, & B6</p>
<p>Plans for Differentiation</p>	<ol style="list-style-type: none"> 1. If students are unable to physically write (such as using an Exit Ticket) they can record their answers audibly. 2. Students who may struggle with typing (such as participating in discussions on Padlet) can share their thoughts/answers through video or audio recording. 3. Read & Write for Google Chrome will be used to support any student with a disability or English Language Learner. 4. When working together, students will be carefully placed in groups that build on individual strengths and facilitate growth among weaknesses. 5. Students with IEP will be accommodated as suggested. 	<p>See B1 B4 & B6</p>

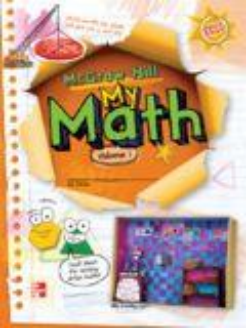
Module 5 Plan (Optional for MOOC participants)		Self-Check
Module Objective(s)	Students will solve division problems within 100 with 85% accuracy. (MGSE3.OA.3) They will practice using equal groups, arrays, drawings and equations with a symbol for the unknown number to represent the problem.	See A1 & A2
Module Assessment(s)	<ol style="list-style-type: none"> 1. Discussion forum: Division can also be known as repeated_____? What are some words that give you hints on how to solve problems using division? 2. Create 3 of your own word problems using division. Please make sure that your word problems make sense and that you can properly solve them as well. 3. Think-Pair-Share or Exit Ticket 	See A2 A3 C1 C2 & C5
Description of Learning Activities	<ol style="list-style-type: none"> 1. Introduction/E.Q. What is division? How can I solve a word problem using division? 2. Topic related video clip 3. Model examples with class 4. Online learning tools to engage students 5. Independent work 6. Discussion forums for students to participate in 	See A2 A3 B3 B4 & B10
Formative Evaluation & Feedback	There will be a midweek conference to discuss strengths and challenges of learners. Students will evaluate themselves and receive feedback from what the instructor has also evaluated the student on. We will discuss future goals and strategies to meet those goals.	See A3 C1 C3 & C5
Physical Learning Materials	<p>My Math, Grade 3 McGraw-Hill 2013</p> 	See A3, A9, B1, B4, & B6

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<p>Plans for Differentiation</p>	<ol style="list-style-type: none"> 1. If students are unable to physically write (such as using an Exit Ticket) they can record their answers audibly. 2. Students who may struggle with typing (such as participating in discussions on Padlet) can share their thoughts/answers through video or audio recording. 3. Read & Write for Google Chrome will be used to support any student with a disability or English Language Learner. 4. When working together, students will be carefully placed in groups that build on individual strengths and facilitate growth among weaknesses. 5. Students with IEP will be accommodated as suggested. 	<p>See B1 B4 & B6</p>

Module 6 Plan (Optional for MOOC participants)		Self-Check
Module Objective(s)	Students will solve multiplication and division problems within 100 with 85% accuracy. (MGSE3.OA.3) They will practice using equal groups, arrays, drawings and equations with a symbol for the unknown number to represent the problem.	See A1 & A2
Module Assessment(s)	<ol style="list-style-type: none"> 1. Exit Ticket or Think-Pair-Share 2. Discussion forum: Why do you think it is important to know how to multiply and divide? Can you think of a way you see multiplication or division used outside of the classroom? 3. Plickers (Students will take a quick digital assessment to demonstrate their mastery of solving two-step word problems using multiplication and division) 	See A2 A3 C1 C2 & C5
Description of Learning Activities	<ol style="list-style-type: none"> 1. Introduction/E.Q. What is the difference between multiplication and division? 2. Topic related video clip 3. Model examples with class 4. Online learning tools to engage students 5. Independent work 6. Discussion forums for students to participate in 	See A2 A3 B3 B4 & B10
Formative Evaluation & Feedback	We will continue with midweek conferences. Teacher will share " Glow & Grow " with student covering the past two weeks of working on solving word problems using multiplication and division. Results of assessments will also be discussed by the end of the week.	See A3 C1 C3 & C5

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<p>Physical Learning Materials</p>	<p>My Math, Grade 3 McGraw-Hill 2013</p> 	<p>See A3, A9, B1, B4, & B6</p>
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<p>Plans for Differentiation</p>	<ol style="list-style-type: none"> 1. If students are unable to physically write (such as using an Exit Ticket) they can record their answers audibly. 2. Students who may struggle with typing (such as participating in discussions on Padlet) can share their thoughts/answers through video or audio recording. 3. Read & Write for Google Chrome will be used to support any student with a disability or English Language Learner. 4. When working together, students will be carefully placed in groups that build on individual strengths and facilitate growth among weaknesses. 5. Students with IEP will be accommodated as suggested. 	<p>See B1 B4 & B6</p>