**Unit 1: Number System Fluency**

**Standards, Checklist and Concept Map**

**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Georgia Standards of Excellence (GSE):**

**MGSE6.NS.1**: Interpret and compute quotients of fractions, and solve word problems involving division of fractions by fractions, e.g., by using visual fraction models and equations to represent the problem. *For example, create a story context for (2/3) ÷ (3/4) = 8/9 because ¾ of 8/9 is 2/3. (In general, (a/b) ÷ (c/d) = ad/bc.) How much chocolate will each person get if 3 people share ½ lb of chocolate equally? How many ¾-cup servings are in 2/3 cup of yogurt? How wide is a rectangular strip of land with length ¾ mi and area ½ square mi?*

[**MGSE6.N**](http://picasso.cobbk12.org/index.php?module=curriculum&type=standards&func=display&StandardID=17458&CourseID=521)**S.2**: Fluently divide multi-digit numbers using the standard algorithm.

**MGSE6.NS.3**: Fluently add, subtract, multiply, and divide multi-digit decimals using the standard algorithm for each operation.

**MGSE6.NS.4** : Find the greatest common factor of two whole numbers less than or equal to 100 and the least common multiple of two whole numbers less than or equal to 12. Use the distributive property to express the sum of two whole numbers 1-100 with a common factor as a multiple of a sum of two whole numbers with no common factor. *For example, express 36 + 8 as 4(9 + 2).*

![C:\Users\baj10446\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.IE5\HW62Y2RF\MC900441880[1].wmf]()

**What Will I Need to Learn??** Mark a check next to each concept as you master them.

\_\_\_\_\_\_\_\_ How to do long division \_\_\_\_\_\_\_\_ How to divide fractions

\_\_\_\_\_\_\_\_ How to add decimals \_\_\_\_\_\_\_\_ To use a picture to represent division

\_\_\_\_\_\_\_\_ How to subtract decimals \_\_\_\_\_\_\_\_ To interpret & solve division word problems

\_\_\_\_\_\_\_\_ How to multiply decimals \_\_\_\_\_\_\_\_ To find the GCF of 2 numbers < 100

\_\_\_\_\_\_\_\_ How to divide decimals \_\_\_\_\_\_\_\_ To find the LCM of 2 numbers < 12

\_\_\_\_\_\_\_\_ How to use the distributive property to show the sum of two numbers

**Unit 1 Concept Map:** On the left page, make a concept map of the standards listed above. Underline the verbs and circle the nouns they modify. Then, place those verbs on the connector lines of your concept map, and the nouns in the bubbles of the concept map.

**Unit 1: Number System Fluency**

**Standards, Checklist and Concept Map**

**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Georgia Standards of Excellence (GSE):**

**MGSE6.NS.1**: Interpret and compute quotients of fractions, and solve word problems involving division of fractions by fractions, e.g., by using visual fraction models and equations to represent the problem. *For example, create a story context for (2/3) ÷ (3/4) = 8/9 because ¾ of 8/9 is 2/3. (In general, (a/b) ÷ (c/d) = ad/bc.) How much chocolate will each person get if 3 people share ½ lb of chocolate equally? How many ¾-cup servings are in 2/3 cup of yogurt? How wide is a rectangular strip of land with length ¾ mi and area ½ square mi?*

[**MGSE6.N**](http://picasso.cobbk12.org/index.php?module=curriculum&type=standards&func=display&StandardID=17458&CourseID=521)**S.2**: Fluently divide multi-digit numbers using the standard algorithm.

**MGSE6.NS.3**: Fluently add, subtract, multiply, and divide multi-digit decimals using the standard algorithm for each operation.

**MGSE6.NS.4** : Find the greatest common factor of two whole numbers less than or equal to 100 and the least common multiple of two whole numbers less than or equal to 12. Use the distributive property to express the sum of two whole numbers 1-100 with a common factor as a multiple of a sum of two whole numbers with no common factor. *For example, express 36 + 8 as 4(9 + 2).*

![C:\Users\baj10446\AppData\Local\Microsoft\Windows\Temporary Internet Files\Content.IE5\HW62Y2RF\MC900441880[1].wmf]()

**What Will I Need to Learn??** Mark a check next to each concept as you master them.

\_\_\_\_\_\_\_\_ How to do long division \_\_\_\_\_\_\_\_ How to divide fractions

\_\_\_\_\_\_\_\_ How to add decimals \_\_\_\_\_\_\_\_ To use a picture to represent division

\_\_\_\_\_\_\_\_ How to subtract decimals \_\_\_\_\_\_\_\_ To interpret & solve division word problems

\_\_\_\_\_\_\_\_ How to multiply decimals \_\_\_\_\_\_\_\_ To find the GCF of 2 numbers < 100

\_\_\_\_\_\_\_\_ How to divide decimals \_\_\_\_\_\_\_\_ To find the LCM of 2 numbers < 12

\_\_\_\_\_\_\_\_ How to use the distributive property to show the sum of two numbers

**Unit 1 Concept Map:** On the left page, make a concept map of the standards listed above. Underline the verbs and circle the nouns they modify. Then, place those verbs on the connector lines of your concept map, and the nouns in the bubbles of the concept map.