**6th Grade Math – Resource**

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| **Teacher** | Tammy Gaffney | **Subject:** | | Math resource | |
| **Date:** | **Beginning: 08/28/17 Ending: 09/01/17** | **Grades:** | | 6 | |
| **Parent/Student WEEKLY AGENDA:** | \*\*PLEASE NOTE: lesson plans are subject to change based on student understanding of the concepts presented.  **\*Discuss New Procedures for Warm Up’s, “ISM folders” (a.k.a. Individual Student Math Folders) and Daily Work with expectations for completion.**  Monday – Assign Weekly ISM work / continue MGSE6.NS.2 (see learning targets)  Tuesday – Check and discuss ISM work / MGSE6.NS.2 QUIZ / Begin MGSE6.NS.3 (see learning targets) – adding and subtracting decimals  Wednesday – Check and discuss ISM work / Continue NS.3 – multiplying and dividing decimals  Thursday – Check and discuss ISM work / MGSE6.NS.3 QUIZ / Begin MGSE6.NS.4 (see learning targets) – Divisibility Rules  Friday – Check and discuss ISM work / Weekly ISM QUIZ / Continue NS.3 - GCF JMS MATH website <http://jms6thgrademath.weebly.com> | | | | |
| **Learning Targets:** | **MGSE6.NS.1** ⎫  I can **compute** quotients of fractions divided by fractions (including mixed numbers).  I can **interpret** quotients of fractions.  I can figure out how **to solve** division problems with fractions in a real-world situation.  I can **solve** word problems involving division of fractions by fractions, e.g., by using visual fraction models and equations to represent the problem.  **MGSE6.NS.2**  I can **divide** multi-digit numbers using the standard algorithm with speed and accuracy, without any math tools (i.e., calculator, multiplication chart).  **MGSE6.NS.3**  I can **fluently** add, subtract, multiply, and divide multi-digit decimals using the standard algorithm for each operation with speed and accuracy, without math tools (i.e., calculator).  **MGSE6.NS.4**  I can **identify** the factors of two whole numbers less than or equal to 100 and determine the Greatest Common Multiple.  I can **identify** the multiples of two whole numbers less than or equal to 12 and determine the Least Common Multiple.  I can **apply** the Distributive Property to rewrite addition problems by factoring out the Greatest Common Factor. | | | | |
| **Vocabulary:** | Algorithm • Difference • Distributive Property • Dividend Divisor• Factor • Greatest Common Factor • Least Common Multiple • Measurement Model of Division• Minuend • Multiple • Quotient • Partitive Model of Division • Reciprocal • Sum • Subtrahend •Product | | | | |
| **Standard(s):** | * **MGSE6.NS.1** - Interpret and compute quotients of fractions, and solve word problems involving division of fractions by fractions, including reasoning strategies such as using visual fraction models and equations to represent the problem. * **MGSE6.NS.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.4a** - Find the greatest common factor of 2 whole numbers and use the distributive property to express a sum of two whole numbers 1- 100 with a common factor as a multiple of a sum of two whole numbers with no common factors. * **MGSE6.NS.4b** - Apply the least common multiple of two whole numbers less than or equal to 12 to solve real-world problems. | | | | |
| **DOK Level** | **Activities / Assignments / Questions** | | **Assessment** | | |
| Remediation | Warm-up based on mastery of standards  • Small group based on scores  • Weekly Homework – review various 5th grade standards / spiral review of 6th grade standards  • Review steps to division  • Multiplication chart as needed  • Decimals Operations Foldable | | Formative  Summative | | Selected Response  Constructed Response  Verbal  Rubric  Other |
| **2** | * How do you divide multi-digit whole numbers (skills and word problems) – Guided Practice 1 – 4 / Practice B   • How do you add and subtract decimals (skills and word problems) – Guided Practice 2 – 10 / Practice B  • How do you multiply decimals (skills and word problems) – Guided Practice 2 – 10 / Practice B | | Formative  Summative | | Selected Response  Constructed Response  Verbal  Rubric  Other – |
| **3** | How do you divide multi-digit whole numbers – Independent Practice 5 – 8 / Practice B or C  • How do you add and subtract decimals – Indep. Practice 12 – 28 even / Practice B or C  • How do you multiply decimals – Indep. Practice 12 – 28 / Practice B or C  • Decimals Scavenger Hunt | | Formative  Summative | | Selected Response  Constructed Response  Essay  Verbal  Rubric  Other – |
| **4** | Operations and Properties Challenge (Holt online textbook)  • A Penny Saved is a Penny Earned (Holt online textbook)  • Decimal Growth (Holt online textbook)  • Decimals Task ..\1-MATH\DECIMAL TASK.pdf  • When Less Is Better / Carnegie  • I Just Spent One Week Going to Work / Carnegie | | Formative  Summative | | Selected Response  Constructed Response  Essay  Verbal  Rubric  Other – |
| **Summarizing**  **Activity:** | Class Anchor Charts  • Carnegie Lessons  • DOE Tasks  • Students demonstrate on whiteboards (individual and/or class board)  • Ipad, personal devices and chromebooks to practice and check algorithms  • Interactive Math Notebook | | | | |
| **Resources** | IXL (students will be given individual usernames / passwords)  USA TestPrep (students will be given individual usernames / passwords) Holt online textbook http://myhrw.com (username – jmsduncan / password – exceed)  Georgia Standards [www.Georgiastandards.org](http://www.Georgiastandards.org)  Khan Academy Videos - <https://www.khanacademy.org/math>  Study Jam Videos - http://studyjams.scholastic.com/studyjams/jams/math/index.htm BrainPop Videos - <https://www.brainpop.com/math/>  MobyMax - <https://www.mobymax.com/signin>  Virtual Nerd Videos - <http://www.virtualnerd.com/>  \* tgtd ct 08 14 08 18 | | | | |

**6th Grade Math – Co-taught**

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| **Teacher** | Tammy Gaffney / Tammy Duncan | **Subject:** | | Math co-taught | |
| **Date:** | **Beginning: 08/28/17 Ending: 09/01/17** | **Grades:** | | 6 | |
| **Parent/Student WEEKLY AGENDA:** | PLEASE NOTE: lesson plans are subject to change based on student understanding of the concepts presented.  Monday – Assign weekly homework / NS.4a – GCF word problems  Tuesday – Check and discuss HW / NS.4a GCF Quiz / Begin Finding GCF using the Distributive Property  Wednesday – Check and discuss HW / NS.4a – Finding GCF using the Distributive Property  Thursday – Check and discuss HW / NS.4a – Distributive Property Quiz / Begin NS.4b - LCM  Friday – Check and discuss HW / Weekly HW QUIZ / NS.4b – LCM word problems JMS MATH website http://jms6thgrademath.weebly.com | | | | |
| **Learning Targets:** | **MGSE6.NS.1** ⎫  I can **compute** quotients of fractions divided by fractions (including mixed numbers).  I can **interpret** quotients of fractions.  I can figure out how **to solve** division problems with fractions in a real-world situation.  I can **solve** word problems involving division of fractions by fractions, e.g., by using visual fraction models and equations to represent the problem.  **MGSE6.NS.2**  I can **divide** multi-digit numbers using the standard algorithm with speed and accuracy, without any math tools (i.e., calculator, multiplication chart).  **MGSE6.NS.3**  I can **fluently** add, subtract, multiply, and divide multi-digit decimals using the standard algorithm for each operation with speed and accuracy, without math tools (i.e., calculator).  **MGSE6.NS.4**  I can **identify** the factors of two whole numbers less than or equal to 100 and determine the Greatest Common Multiple.  I can **identify** the multiples of two whole numbers less than or equal to 12 and determine the Least Common Multiple.  I can **apply** the Distributive Property to rewrite addition problems by factoring out the Greatest Common Factor. | | | | |
| **Vocabulary:** | Algorithm • Difference • Distributive Property • Dividend Divisor• Factor • Greatest Common Factor • Least Common Multiple • Measurement Model of Division• Minuend • Multiple • Quotient • Partitive Model of Division • Reciprocal • Sum • Subtrahend •Product | | | | |
| **Standard(s):** | * **MGSE6.NS.1** - Interpret and compute quotients of fractions, and solve word problems involving division of fractions by fractions, including reasoning strategies such as using visual fraction models and equations to represent the problem. * **MGSE6.NS.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.4a** - Find the greatest common factor of 2 whole numbers and use the distributive property to express a sum of two whole numbers 1- 100 with a common factor as a multiple of a sum of two whole numbers with no common factors. * **MGSE6.NS.4b** - Apply the least common multiple of two whole numbers less than or equal to 12 to solve real-world problems. | | | | |
| **DOK Level** | **Activities / Assignments / Questions** | | **Assessment** | | |
| Remediation | -Warm-up based on mastery of standards  -Small group based on scores  -Weekly Homework – review various 5th grade standards / spiral review of --6th grade standards  -Multiplication chart as needed  -Divisibility Rules / Factor Trees | | Formative  Summative | | Selected Response  Constructed Response  Verbal  Rubric  Other |
| **2** | -How do you add, subtract, multiply and divide decimals (skills and word problems)  -How do you find the GCF – Method 1 listing factors (rainbow / factor pairs) --Distributive Property – use factor trees and Venn Diagram  -How do you find the LCM – Method 1 listing multiples | | Formative  Summative | | Selected Response  Constructed Response  Verbal  Rubric  Other – |
| **3** | -How do you add, subtract, multiply and divide decimals (skills and word problems)  -How do you find the GCF – Methods 2 and 3  -Distributive Property – equivalent expressions to factor out GCF from two addends  -How do you find the LCM – Method 2 using prime factorization | | Formative  Summative | | Selected Response  Constructed Response  Essay  Verbal  Rubric  Other – |
| **4** | -GCF or LCM Tic-Tac-Know (word problems)  -Carnegie (Student Assignments) pg. 17 Using GCF and LCM to solve problems -Distributive Property Using Area (using variables and integers)  -Decimals Scavenger Hunt  -Decimal Growth (Holt online textbook) | | Formative  Summative | | Selected Response  Constructed Response  Essay  Verbal  Rubric  Other – |
| **Summarizing**  **Activity:** | Class Anchor Charts / white boards (individual and class)  Carnegie Lessons / DOE Tasks  Ipad, personal devices and chromebooks to practice and check algorithms  Study Guides / Notes / Examples / Foldables / Handouts – CHECK STUDENT MATH BINDER | | | | |
| **Resources** | IXL / USA TestPrep (students will be given individual usernames / passwords)  Holt online textbook http://myhrw.com (username – jmsduncan / password – dragons)  Georgia Standards [www.Georgiastandards.org](http://www.Georgiastandards.org)  Khan Academy Videos - <https://www.khanacademy.org/math>  Study Jam Videos - <http://studyjams.scholastic.com/studyjams/jams/math/index.htm>  Virtual Nerd Videos - http://www.virtualnerd.com/ | | | | |