| $\begin{array}{ll} \hline \text { Grade: } & 4 \\ \text { Unit: } & 3 \\ \hline \end{array}$ | Multiplication and Division 2 |  |  |  | 5 Weeks |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Progression |  |  |  |  |  |
| $3^{\text {rd }}$ Grade | Students used equations, arrays and grouping strategies to develop an understanding of multiplication and division. They gained fluency with multiplication and division with 100, knowing products of 1-digit numbers from memory. |  |  |  |  |
| $4^{\text {th }}$ Grade | Students will continue to use multiplication and division strategies and models to solve for products and quotients, extending to products of two 2-digit numbers, and products and quotients of 4digit with 1-digit whole numbers. <br> Students are not required to master the standard algorithms for multiplication or division in $4^{\text {th }}$ grade. |  |  |  |  |
| $5^{\text {th }}$ Grade | Students will extend their understanding of multiplication and division to include decimal numbers. They will be expected to be fluent with the standard algorithm for multiplication by the end of $5^{\text {th }}$ grade. |  |  |  |  |
| STUDENT LEARNING GOALS |  |  |  |  |  |
| Mathematics Standards (Appendices A \& B) |  |  |  |  |  |
| 4.NBT.5: Multiply a whole number of up to four digits by a one-digit whole number, and multiply two two-digit numbers, using strategies based on place value and the properties of operations. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models. |  |  |  |  |  |
| divisors, using strategies based on place value, the properties of operations, and/or the relationship between multiplication and division. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models. |  |  |  |  |  |
| MP1: Make sense of problems and persevere in solving them. |  |  |  |  |  |
| MP6: Attend to Precision |  |  |  |  |  |
| Interdisciplinary Standards |  |  | Key Vocabulary |  |  |
| Technolog (Appe | $\begin{aligned} & \text { Integration } \\ & \text { dix C) } \\ & \hline \end{aligned}$ | $21^{\text {st }}$ Century Skills (Appendix D) | Dividend Multiple <br> Division Multiplication <br> Divisor Product <br> Equation Quotient <br> Factor Remainder |  |  |
| IS1. Informatio IS2. Informatio | Strategies Use | TCS1. Use of Information TCS5. Problem Solving |  |  |  |
| Enduring Understandings <br> - I can multiply a 4 -digit number by a 1 -digit number <br> - I can multiply a 2 -digit number by a 2 -digit number <br> - I can divide a 4 -digit number by a 1 -digit number <br> - I can use area models and equations to explain my work |  |  | Essential Questions <br> - How can I use strategies to find the products or quotients of larger numbers? <br> - How can I show my work using a model? |  |  |

## Assessment Plan

Summative Assessment(s)/Performance Based
Assessments including 21 ${ }^{\text {st }}$ Century Learning

RCC Interim Assessment, Student p.116-117
RCC Performance Task, Student p. 118

Formative and Diagnostic Assessment(s)

STAR Math Assessment (Fall)
RCC Embedded Tasks and Assessments

## Learning Plan Components

| Learning Plan Components |  |  |  |
| :---: | :---: | :---: | :---: |
| Text Ready Com <br> ISBN: 978-0 | Ready Common Core Mathematics Instruction 4, 2014, Curriculum Associates, ISBN: 978-0-7609-8639-4 |  |  |
| Print Ready Com <br> ISBN: 978-0 | Ready Common Core Mathematics Teacher Resource Book 4, 2014, Curriculum Associates, ISBN: 978-0-7609-8646-2 |  |  |
| Electronic www.teache <br> www.stratfor | www.teacher-toolbox.com www.stratfordmath.wikispaces.com www.xtramath.org |  |  |
| Week 1\&2 Students w | Students will: |  |  |
| Lessons <br> RCC Lesson 11: Multiply Whole Numbers | Tasks / Activities | Worksheets | Technology |
|  | ```Hands-On (p.107, 111, 114) Visual (p.110) Differentiated (p.114) GA At the Circus``` | CC Practice (p.113) <br> *One Digit by Two Digit <br> Multiplication (w/ and w/o <br> answer bank) <br> *Three Digit by One Digit <br> Multiplication <br> *Four Digit by One Digit <br> Multiplication <br> *Two Digit by Two Digit <br> Multiplication (w/ and w/o <br> answer bank) <br> SF 3-3 <br> SF 5-3, 5-4, 5-5, 5-6 <br> SF 6-5 | Teacher-Toolbox (2 Tutorials, 2 Tools for Instruction) |
| Week 3\&4 Students will: <br> $\bullet$ |  |  |  |
| Lessons <br> RCC Lesson 12: Divide Whole Numbers <br> **Long Division should not be emphasized as a primary strategy** | Tasks / Activities | Worksheets | Technology |
|  | Hands-On (p.120, 124) Differentiated (p.124) | CC Practice (p.123) <br> *Division 2 Digit Dividend - <br> No Remainder <br> *Division 2 Digit Dividend - <br> With Remainder <br> *Long Division 3 Digit <br> Dividend - With <br> Remainder (LD not required) <br> *Long Division 4 Digit <br> Dividend - With <br> Remainder (LD not required) <br> SF 3-6, 3-6, 3-8 <br> SF 7-3 | Teacher-Toolbox (2 Tutorials, 1 Tool for Instruction) |


| Week 5 | Students will: <br> $\bullet$ Demonstrate mastery of objectives |  |
| :--- | :--- | :---: |
| Summative Assessment | Performance Task |  |
| RCC Unit 3 Interim Assessment | RCC Unit 3 Performance Task <br> -Student p. 116-117 |  |
| -Student p. 118 |  |  |
| -Scoring Guide (p. 125) | -Rubric (p. 126-127) |  |

