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| Trimester 2 | Grade: 4 | Unit Number: 6 |
| Unit Overview: * Provide practice solving multiplication and division number stories
* Introduce the division algorithm and the concept of remainders as fractions or decimals
* Provide practice drawing, measuring, and naming angles using half-circle and full-circle protractors
* Introduce latitude and longitude
* Utilize letter-number pairs and ordered pairs on a grid system
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| Essential Question: How is the Global Grid System useful? |
| Academic Vocabulary: multiplicative comparison, additive comparison, remainder, estimation, rounding, expanded form, rectangular array, area model |
| Lesson | Standard | Guiding Questions | Additional Resources  | Differentiation | Student Learning Goals |
| 6.1 | **4.OA.2 4.OA.3****4.NBT.3****4.NBT.6****4.MD.2** | * How can diagrams help you understand information?
 |  |  | I can…* Solve multiplication or division problems using drawings and/or equations with a symbol for the unknown number to represent the problem.
* Distinguish between multiplicative (as many times as) and additive (more) comparisons.

 4.OA.2* Solve multi-step word problems with whole numbers using the four operations.
* Interpret remainders of word problems.
* Write equations using a variable to represent the unknown quantity.
* Check my answers using mental computation and estimation strategies, including rounding.

4.OA.3* Find all of the factor pairs for any whole number in the range of 1-100
* Determine whether a given whole number is a multiple of a give one digit number.
* Define prime and composite
* Determine if a number is prime or composite (1-100)

4.OA.4* Find whole-number quotients and remainders with up to four-digit dividends and one digit divisors, using strategies based on place value, the properties of operations and/or the relationship between multiplication and division.
* Explain my calculations using rectangular arrays, area models, and or equations.

4.NBT.6* Represent measurements using diagrams such as a number line that features a measurement scale.
* Use the four operations to solve word problems involving measurements.
* Convert a measurement given in a larger unit into an equivalent measurement in

4.MD.6* Explain that the angle measurement of a larger angle is the sum of the angle measures of its decomposed parts.
* Write an equation with an unknown angle measurement.
* Use addition and subtraction to solve for unknown angle measurements in problems.

4.MD.7 |
| 6.2 | **4.OA.3 4.OA.4****4.NBT.2 4.NBT.6** | * Why is it helpful to share different strategies for solving problems?
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| 6.3 | **4.OA.3, 4.NBT.6****4.MD.2** | * How can it help you to have a plan for solving a problem?
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| 6.4 | **4.OA.3**4.OA.4**4.NBT.6 4.MD.2** | * Why do you need to consider remainders when sharing things in real life?
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| 6.5 | **4.MD.2****4.MD.5a****4.MD.5b** | * How can a tool help you determine an angle measure?
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| 6.6 | 4.NBT.6 4.MD.2**4.MD.5a 4.MD.5b****4.MD.6 4.MD.7** | * Why is it helpful to know the properties of angles?
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| 6.7 | **4.MD.5a 4.MD.5b****4.MD.6 4.MD.7** |  |  |  |
| 6.8 | 4.OA.3, **4.MD.5a****4.MD.5b 4.MD.6,**4.MD.7 |  |  |  |
| 6.9 | **4.OA.3 4.NBT.6** | * How can working with a partner help solve problems?
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| 6.10 | **4.OA.3 4.NBT.6** | * Why are there so many ways to represent problems?
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| Assessment: Progress Check Unit 6 |