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| Trimester 3 | Grade: 4 | | | | Unit Number: 10 | | |
| Unit Overview:   * Introduce the basic properties of reflections involving 2-dimensional figures and the connection with line symmetry * Introduce rotations and translations * Introduce addition involving negative integers | | | | | | |
| Essential Question: Where can you find translations in nature? | | | | | | |
| Academic Vocabulary: fraction, unit fraction, multiple, equivalent fraction, denominator, symmetry, line of symmetry, pattern, rule | | | | | | |
| Lesson | Standard | Guiding Questions | Additional Resources | | Differentiation | Student Learning Goals |
| 10.1 | **4.NF.5** 4.G.3 | * How do you use a transparent mirror correctly? |  | |  | I can…   * Explain that a fraction a/b is a multiple of 1/b. * Use my understanding that multiple of a/b is a multiple of 1/b to multiply a fraction by a whole number. * Solve word problems that involve multiplying a fraction and a whole number using visual models and equations.   4.NF.4   * Rewrite a fraction with a denominator 10 as an equivalent fraction with denominator 100. * Add two fractions with respective denominators of 10 and 100.   4.NF.5   * Identify line-symmetric figures and draw lines of symmetry. * Explain how, in a two-dimensional figure, folding along the line of symmetry results in matching parts. * Draw a line on a figure to create two symmetric figures.   4.G.3   * Generate a number pattern that follows a given rule. * Identify and explain features of the pattern that go beyond the given rule.   4.OA.5 |
| 10.2 | 4.MD.6 **4.G.3** | * How can using tools correctly help you be more precise? |  | |  |
| 10.3 | **4.OA.5** 4.MD.1  4.G.3 | * How can you describe a rule that explains the distances between the images and the line of reflection? |  | |  |
| 10.4 | **4.NF.4a 4.NF.4b**  **4.NF.4c** 4.NF.5  **4.G.3** | * How might classifying an object with line symmetry in your classroom help you explain what it means? |  | |  |
| 10.5 | **4.OA.5** 4.G.1  4.G.2 **4.G.3** | * How can drawing your own pattern help you understand rigid motion? |  | |  |
| 10.6 | 4.NF.6 4.MD.1 | * Why do you need to explain what math symbols mean? |  | |  |
| Assessment: Progress check unit 10 | | | | | | | |