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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
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| 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?
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| 10.3 | **4.OA.5** 4.MD.14.G.3 | * How can you describe a rule that explains the distances between the images and the line of reflection?
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| 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?
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| 10.5 | **4.OA.5** 4.G.14.G.2 **4.G.3** | * How can drawing your own pattern help you understand rigid motion?
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| 10.6 | 4.NF.6 4.MD.1 | * Why do you need to explain what math symbols mean?
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| Assessment: Progress check unit 10 |