Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Ms. Abadie’s \_\_\_\_\_\_\_\_\_\_\_ Period

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| **Chapter 1**  **Pre-Algebra** | **Equations** |
| MAFS.8.EE.3.7 | Solve linear equations in one variable. |
| **Essential Question** | How can I solve a linear equation with one variable?  In this lesson I am *using opposite operations*, so I can *find the value of the variable.* |
| **1.1**  **Solving Simple Equations** |  |
| **Example 1**  **Solving Equations using Addition or Subtraction** |  |
| **On Your Own** |  |
|  |  |
| **Example 2**  **Solving Equations using Multiplication or Division** |  |
| **On Your Own** |  |
| **Example 3**  **Identifying the Solution of an Equation** |  |
| **Example 4**  **Real Life Application** |  |
| **On Your Own** |  |

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| MAFS.8.EE.3.7b | Solve linear equations with rational number coefficients, including equations whose solutions require expanding expressions using the distributive property and collecting like terms. |
| **Essential Question** | How do you solve multi-step linear equations?  In this lesson I am *using what I know about solving simple equations*, so I can *use it to solve multi-step equations*. |
| **1.2**  **Solving Multi-Step Equations** |  |
|  | **\*\*\*Always combine like terms or distribute first when you can!\*\*\*** |
| **Example 1**  **Solving a Two-Step Equation** |  |
| **Example 2**  **Combining Like Terms to Solve an Equation** |  |
| **On Your Own** |  |
| **Example 3**  **Using the Distributive Property to Solve an Equation** |  |
| **Example 4**  **Real Life Application** |  |
| **On Your Own** |  |

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| MAFS.8.EE.3.7a | Give examples of linear equations in one variable with one solution, infinitely many solutions, or no solutions. |
| **Essential Question** | How do you solve an equation with variables on both sides?  In this lesson I am *using opposite operations*, so I can *combine the variables on one side and combine the numbers on the other side of the equal sign.* |
| **1.3**  **Solving Equations with Variables on Both Sides** |  |
| **Example 1**  **Solving Equations with Variables on Both Sides** |  |
| **Example 2**  **Using the Distributive Property to Solve an Equation** |  |
| **On Your Own** |  |
| **Example 3**  **Solving Equations with No Solution** |  |
| **Example 4**  **Solving Equations with Infinitely Many Solutions** |  |
| **On Your Own** |  |
| **Example 5**  **Writing and Solving an Equation** |  |
| **Example 6**  **Real Life Application** |  |
| **On Your Own** |  |

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| **Essential Question** | How do you solve an equation for a different variable?  In this lesson I am *using what I know about solving equations*, so I can *use it to solve for other variables.* |
| **1.4**  **Rewriting Equations and Formulas** |  |
| **Example 1**  **Rewriting an Equation** |  |
|  |  |
| **Example 2**  **Rewriting a Formula** |  |
| **On Your Own** | **Solve the equation for b.**    **Solve the equation for P.**    **Solve the equation for h.** |
|  |  |
| **Example 3** | **Solve the temperature equation for F.** |
| **Example 4**  **Real Life Application** |  |
| **On Your Own** |  |