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| STAGE 1 – DESIRED RESULTS | |
| **Unit Title: Solving for Single variable equations**  **Established Goals:**   * **For students to be able to solve for a single variable equation using basic techniques of algebra**   **-these techniques would include: cancelling out coefficients and constants within the equation** | |
| **Understandings:** *Students will understand that…*   * **Algebra is a foundational aspect of most all other later branches of mathematics** * **Whatever mathematical operation you do to one side, you have to do to the other** * **There is an order of operations in which you have to solve for equations, which is: Parentheses, exponents, multiply, divide, add, subtract** | **Essential Questions:**   * **How do we solve for x?** * **If I multiply, divide, subtract, or add to one side of the equation, what do I do to the other?** * **How would I cancel out a coefficient for x?** * **If we add to one side, what do we do to the other side?** * **Etc.** |
| Students will know:   * What a variable is. * What an equation is. * What the order of operations are to solve for a single variable equation | Students will be able to:   * Autonomously solve a single variable equation * Identify an equation * Identify the variable in the equation |

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| STAGE 2 – ASSESSMENT EVIDENCE | |
| **Performance Tasks:**   * See how they do on their assigned homework (which would probably come in the form of worksheets or bookwork) * Maybe have them do a project of some sort * Go the traditional route and have them take summative assessments | **Other Evidence:**   * Class participation |
| **Key Criteria: Order of operations, solving for single variable equations, knowing what an equation and variable is, knowing what the order of operations are for solving single variable equations, etc.** | |

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| STAGE 3 – LEARNING PLAN |
| **Summary of Learning Activities:**   * **I might have the students take notes on what I am writing on the board.** * **I might have the students come up and try to figure out how to solve for x in an equation** * **I might have students do a project of some sort to help them become better learners** * **I might set up some sort of game which involves using the mathematical principles that we would be talking about (This would help make the material fun as well as create competition amongst the students)** * **I might have students watch some videos and incorporate a flipped classroom style of teaching** * **I might have students do worksheets or book work for homework** * **I might have students take tests and quizzes to see where they are in he understating of the material**   **\*\*Note: All of these things will depend on each class. Every class is different and should therefore be taught as such\*\*** |