Lesson Plan

| Grade Level | 6<sup>th</sup> Grade |
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| **Subject** | Math |
| **Curriculum Objective** | **Math: COMPETENCY GOAL 5: The learner will represent and analyze mathematical situations and structures using algebraic symbols. The learner will also analyze change in various contexts.  (NCTM Standard 2)**<br><br>**5.01** – Simplify algebraic expressions and verify the results using the basic properties of rational numbers – Identity, Commutative, Associative, Distributive, and Order of Operations.<br><br>**5.02** – Use and evaluate algebraic expressions.<br><br>**Technology:**<br><br>**Competency Goal 3 –  The learner will use a variety of technologies to access, analyze  interpret, synthesize, apply and communicate information** |
| **Guiding Question** | How do we solve simple 2-step algebraic equations? |
| **Lesson Summary** | Students will use internet resources to practice and solve algebraic equations naming the different properties that they have used in solving them. |
| **Activating Strategy** | **KWL**<br>• Students will write the different properties and give examples on expressing them.<br>• Students will demonstrate solving one step equations utilizing different examples using addition/subtraction/multiplication and division. |
| **Cognitive Strategy** | • The students using what they know on simplifying simple one-step equations will write down the steps needed for solving 2-step addition and multiplying equations as well as for solving division/subtraction 2-step equations..<br>• The students will analyze if any properties were used in solving the simple 2-step equations.<br>• The students will practice solving and analyzing different addition/multiplication 2-step equations and subtraction/ division 2-step equations.<br>• The students will practice solving equations involving different combinations of subtraction/multiplication, addition /multiplication, subtraction/division, subtraction/multiplication.<br>• The students will practice solving the above different combinations analyzing different properties used. |

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| | - The students will use website www.msmath1.net/extra.examples to practice their equations.<br>- The students will use website www.msmath1.net/self_check_quiz to practice taking quizzes. |
| **Summarizing Strategy** | **Exit Slip**<br>- On a piece of paper students will identify and give an example of a property used while solving an equation..<br>- On the same piece of paper students will give an example of an algebraic 2-step equation.<br>- Students can share their responses with a partner.<br>- Collect the students' printed tutorial |
| **Evaluation** | Informal evaluation can be completed while students are practicing on www.studyisland.com solving problems in the algebraic component part of the tutorial.  They are working towards an 80% or higher score in solving their problems. They will print out their results for viewing by myself. |
| **Resources** | - Paper<br>- Pencils<br>- Computer lab with Internet Access<br>- Printer<br>- www.studyisland.com<br>- www.msmath1.net/extra.examples<br>- www.msmath1.net/self_check_quiz |
| **Credits** | Alison Zdan<br>Piney Grove Middle School<br>6th Grade Math/Science<br>Alison.Zdan@stokes.k12.nc.us |