**Charleston Catholic High School**

**Teacher:    Dorothy Pile**

**Subject:      7th Grade Math**

**Total Time: 14 days**

Essential Question: How does your understanding of operations with whole numbers and fractions apply to adding, subtracting, multiplying, and dividing integers?

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| **Standards** | **Lesson Title** | **Skills and Activities** | **Assessments** | **Resources** | **Time** |
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| M.7.NS.1d  M.7.NS.2c | Properties | Students will identify the properties of operations. Students will illustrate the properties of operations. | Homework  Worksheet | Saxon Math Course 2 | 1 day |
| M.7.NS.1b | Adding Integers on a Number Line | Students will find the absolute value of a number. Students will use a number line to add integers. | Homework | Saxon Math Course 2 | 1 day |
| M.7.NS.1a   M.7.NS.1b | Adding Integers | Students will add positive and negative numbers without drawing a number line. Students will learn the rules for adding positive and negative numbers. | Homework  Worksheet | Saxon Math Course 2 | 1 day |
| M.7.NS.1c | Subtracting Integers | Students will use algebraic addition to simplify expressions. | Homework  Worksheet | Saxon Math Course 2 | 1 day |
| M.7.NS.1a   M.7.NS.1b | Adding Integers | Students will play “Snail’s Pace”. Students are placed in groups of two. Each group is given a game board (shaped like a snail), two dice (different colors) and two game pieces. One die is the positive number and one die is the negative number. Dice are rolled and numbers are ADDED. A positive answer moves one space, a negative answer moves 2 spaces and a zero answer moves 3 spaces. The students start at “start” and move on the board according to their rolls. First student to the finish wins. |  | Game board  Two dice  Two game pieces | 1 day |
| M.7.NS.2a  M.7.NS.2b | Multiplying and Dividing Integers | Students will multiply and divide positive and negative numbers. Students will learn the rules for multiplying and dividing positive and negative numbers. | Homework  Worksheet | Saxon Math Course 2 | 1 day |
| M.7.NS.1a-d  M.7.NS.2a-c | Quiz | The quiz will assess if students can successfully add, subtract, multiply and divide integers. The quiz will also assess if students can successfully identify the properties of operations. | Quiz | Teacher created | 1 day |
| M.7.NS.2d | Converting Fractions to Decimals | Students will convert fractions and mixed numbers to decimals (terminating). | Homework  Worksheet | Saxon Math Course 2 | 1 day |
| M.7.NS.2d | Converting Fractions to Decimals | Students will convert fractions and mixed numbers to decimals (repeating). Students will complete a chart of 25 basic fraction to decimal conversions. Students will memorize the chart for a quiz. | Homework  Worksheet  Chart | Saxon Math Course 2 | 1 day |
| M.7.NS.2d | Quiz | The quiz will assess if students have memorized 25 basic fraction to decimal conversions. The quiz will be given orally and the students cannot show any work. | Quiz | Teacher created | 1 day |

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| M.7.NS.3 | Adding and Subtracting Word Problems | Students will solve word problems about combining, separating, comparing, elapsed time, and parts of a whole. | Homework  Worksheet | Saxon Math Course 2 | 2 days |
| M.7.NS.3 | Multiplying Word Problems | Students will solve word problems about equal groups. | Homework  Worksheet | Saxon Math Course 2 | 1 day |
| M.7.NS.1a-d  M.7.NS.2a-d  M.7.NS.3 | Test | The test will determine if students can successfully add, subtract, multiply and divide integers. It will determine if students can successfully convert fractions to decimals (terminating and repeating). It will determine if students can successfully solve real-world problems involving the four operations of rational numbers. | Test | Teacher created | 1 day |

Formative Assessments: homework, worksheets and class activities

Summative Assessments: quizzes and test

Essential Unit Vocabulary: additive identity, absolute value, inverse operations, integers, multiplicative identity

Instructional Resources: Saxon Math Course 2, teacher created resources, fraction-decimal chart, and Snail’s Pace game

Cross Curricular: Science and Social Studies