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Professor Grimm

ELED 470 Sec. 5

September 24, 2010

#### Math Lesson #4

- I. Curricular Area/Topic:** Math lesson on Adding and Subtracting Whole Numbers and Decimals; Number Sense: Adding and Subtracting Whole Numbers.
- II. Date/Timeframe for Lesson:** September 24, 2010; One 55 minute lesson plan
- III. Rationale:** This lesson is important for students to learn because this is a skill that they will use in their everyday lives. Students will come into situations and problems everyday that use addition and subtraction skills and if students do not understand how to solve those situations or problems, they will struggle. Students will use numbers in cooking, spending and collecting money, as well as driving a car. And these are all situations that will happen everyday, as the students get older.
- IV. Illinois Learning Standards:**
  - ✓ **State Goal 6:** Demonstrate and apply a knowledge and sense of numbers, including numeration and operations (addition, subtraction, multiplication, division), patterns, ratios and proportions.
    - **Standard 6.B.2:** Solve one- and two-step problems involving whole numbers, fractions and decimals using addition, subtraction, multiplication and division.
    - **Standard 6.B.3a:** Solve practical computation problems involving whole numbers, integers and rational numbers.
- V. Objectives:**
  1. When this lesson is complete, the students will know the steps in how to add and subtract large whole numbers.
  2. After this lesson is over, students will be able to solve large numbers when adding.

3. At the completion of this lesson, students will be able to solve large numbers when subtracting.

**VI. *Materials/Resources/Technology:*** The materials that will be needed for this lesson is dry erase boards, markers, and erasers, the overhead projector, paper and pencil, the worksheet of the assignment and the worksheet of the daily review.

**VII. *Management/Organization for Instruction:*** For the management of this lesson, the homework worksheet will need to be printed off (at least 13 copies) before class and the problems that I will use during the students guided and independent practice.

**VIII. *Lesson Delivery:***

**A. *Opening:*** To open this lesson, the students and I will do the Daily Spiral Review of which the students will take notes over, on the overhead. This daily review consists of six questions involving a graph, geometric shapes, and drawing a picture to find the letter m in the equation.

**B. *Body:*** To continue with this lesson, I will be teaching the steps on how to add and subtract big numbers, for example, 5,002 minus 2,684. I will have to explain to the students that first they need to subtract the ones column followed by the tens, hundreds, and thousands. And for numbers like this, the students will need to know that the zeros in the problem will become nines. The students will also need to know how to line the numbers up properly. For example, if you are adding, 51,432 to 6,745. For guided practice, I will do several problems with the students on the overhead projector. And continuing with independent practice, the students will get to go up to the board and work out problems in groups, while the others sit at their desks and try to solve the problem as well.

**C. *Closing:*** To close this lesson, the students will be given their homework assignment that will be a worksheet. And I am hoping to leave enough time at the end of the class period for the students to work on it a little bit and to ask for help if it is needed.

**IX. *Assessment:*** For the assessment, the students will be given a worksheet that is made up of several different problems where the students will be both adding and

subtracting large whole numbers. The assessment will be worth the number of problems on the worksheet and will be either right or wrong.

- X. *Accommodating Individual Learner:*** To help the students in my classroom who are struggling, I will have or call on them a little more than others to come up to the board to practice solving problems. With these students, a lot of them just need the practice as well as the one-on-one guidance.
- XI. *Extending the Lesson:*** To extend this lesson I would have the students come up with different situations where they may use this math skill. And once the students have around five different places or situations, then they will tell the entire class. And with this the students will see just how important math is and how they will use it everyday.