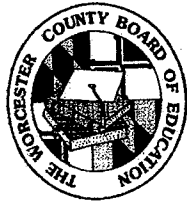


Daily Instructional Lesson Plan Worcester County Public Schools



Content Area(s)/Course/Grade:  
Pre-Algebra/Grade 8

Unit:  
Integers

Lesson Topic:  
Addition of Integers

Date:  
September 29, 2006

Teacher:  
Margaret L. Snead

School:  
Pocomoke Middle School

Indicator(s)/Sub-Outcome(s)/Expectation(s):  
The students will be able to add integers.

Student Outcome(s):

The student will use algebra tiles. The students will use the algebra tiles to show the addition of integers. The student will understand that the unit tiles each represent either a positive one or a negative one. The positive side is yellow the negative side is red.(Tiles from the textbook company)

Context for Learning

This lesson is part of the unit integers. We have been working on comparing and ordering integers (also including absolute value). The concepts of positives and negatives were discussed in the previous lesson. The lesson will help the students to discover the "rules" for adding integers.

The lesson will be taught as a hands-on activity. Each student has a pack of algebra tiles with 20 unit squares. They will write down each problem that is given on the display and then using the tiles will show the integers that are being added. I will model several examples for them on the display (document camera). They can see how each unit is represented with either red or yellow. The concepts of additive inverses(opposites) will be shown with 1 red and 1 yellow making zero. This makes a zero pair. The zero pairs(one red and one yellow) are removed from the work area until no more zero pairs remain. The remaining yellow(s) or red(s) are counted and written as the sum. The color indicates the sign of the answer. I will have several examples on the display for the students to complete with the tiles. I will circulate around the room when the students are working independently. I will provide assistance and assess the students' progress informally during that time.

Instructional Delivery

Opening Activities/Motivation:

Warm-Up on comparing integers.

Use  $<$ ,  $>$ , or  $=$  to compare each set of numbers.

1.  $-6$  \_\_\_\_\_  $-8$

2.  $| \$10 |$  \_\_\_\_\_  $| -\$10 |$

3.  $-|-3 |$  \_\_\_\_\_  $0$

Collect today's warm-up and go over yesterday's daily warm-up.

2.) Go over any questions from the previous days' assignment.

3.) State the lesson objectives.

4.) Algebra tiles will be distributed at the start of the lesson.

5.) Complete the lesson.

6.) Give students several examples on the display to work on as an in class assignment. I will monitor and assist the students while they are completing the assignment.

7.) Go over in-class assignment.

8.) Close lesson.

### Assessment/Evaluation (Formative/Summative)

The warm-up will assess the students' ability to compare integers and understand absolute value.

The questions asked and answered during the lesson will allow me to assess the students' comprehension of the material being presented.

The in-class assignment will assess the students' ability to independently complete an assignment based on the lesson.

#### Closure:

Restate the objectives of the lesson.

Restate the skills that were covered in the lesson. Discuss how the problems can be done if you don't have enough tiles. (This will lead into the following days lesson where the "rules" of adding integers is directly taught)