

Title: Ordering, Adding, and Subtracting Integers

Brief Overview:

This unit will prepare students to develop comprehension of and calculate integers. Teacher will introduce the concept of positive and negative integers using number lines, manipulatives, and cooperative learning. Students will participate in whole-class and group movement activities in order to facilitate understanding of positive and negative integers, the Zero Principle, and addition and subtraction of integers.

NCTM Content Standard/National Science Education Standard:

Number and Operations

- To select appropriate methods and tools for computing integers from among mental computation, estimation, calculators or computers, and paper and pencil, depending on the situation, and apply the selected methods.
- To develop meaning for integers and represent and compare quantities for them

Grade/Level:

Grades 6–8, Pre–Algebra

Duration/Length:

Three 80–minute lessons

Student Outcomes:

- Students will:
- Recognize integers as whole numbers and their opposites.
 - Find absolute value of integers.
 - Compare and order integers.
 - Solve problems using addition and subtraction.

Materials and Resources:

- Masking Tape
- Two-color counters: (Red and yellow integer ‘bingo’ chips)
- Red and yellow colored pencils for each student (or for students to share)
- Red and yellow dot stickers
- Worksheets:
 - City Temperatures – Where Do You Want To Live?
 - Depths of the Sea