

LEARNING PLAN

<p>Exploratory Activities Racing Integers Thermometer Activity</p>	<p>CONCEPT Integers (for middle school mathematics)</p>
<p>Concept Development Activities Positive & Negative Numbers- Everyday Math Credits & Debits Game/Postman Activity Floating House Activity Two-Color Counters Activity Mrs. Glosser’s Math Goodies</p> <ul style="list-style-type: none"> • Introduction to Integers • Absolute Value of Integers • Comparing and Ordering Integers • Addition of Integers • Subtraction of Integers • Challenge Exercise- Integers and the Real World <p>Goal 20 (game) Good and Bad Card Game Integer Pat (card game) Battle It Out (card game) Build and Take (card game) Number Signs (folder game) Plus Game (folder game) GraphLinks Activity- Integers on the Coordinate Plane Earth Update Rising Waters; Coming of the Ice; Is the Sea Level?</p>	<p>Materials and Resources Large thermometer (see attached) Number Line (Everyday Math) Two color Counters Everyday Math- Grade 4 Lesson 83 Algebra-Creative Pub. Teaching Tips p. 579-585 Math in the Cards- Charles Lund Mathematics Games for Fun and Practice- Addison-Wesley Ask Dr. Math - Real Life Examples of Integers http://mam2000.mathforum.org/library/drmath/view/57152.html Ask Dr. Math- Who Invented Integers http://mam2000.mathforum.org/library/drmath/view/57212.html Mrs. Glosser’s Math Goodies http://www.mathgoodies.com/</p>
<p>Basic Facts and Standard Algorithms Formalized</p> <ul style="list-style-type: none"> • 3 uses of the "-" sign (negative, opposite of, minus) • uses of parentheses (order of operations, negative sign of integers) • coordinate plane 	<p>Originality and Creativity <i>Student Products</i></p> <p>Written Write an explanation of what negative numbers are and how they relate to positive numbers for a 4th grade friend.</p> <p>Verbal Be a news reporter and make up a news story that uses positive and negative numbers. Be ready to give your report to the class or tape it.</p> <p>Kinesthetic Make up a dance using addition of integers.</p> <p>Visual Make up a board game that works with integers.</p>
<p>Assessment “Do Movies Make Money”— http://www.figurethis.org/challenges/c77/challenge.htm</p>	
<p>Related TEKS/TAKS 5.14.A. Identify the mathematics in everyday situations 5.14.D. Use tools such as real objects, manipulatives, and technology to solve problems. 5.15.A. Explain and record observations using objects, words, pictures, numbers, and technology. 5.15.B. Relate informal language to mathematical language and symbols. 5.16.B. Justify why an answer is reasonable and explain the solution process. 6.1.C. Use integers to represent real-life situations 7.1.A. Compare and order integers (and positive rational numbers) 7.2.C. Use models to add, subtract, (multiply, and divide) integers and connect the actions to algorithms. 8.1.A. Select and use appropriate operations to solve problems and justify the selections. 8.2.B. Add, subtract, (multiply, and divide) rational numbers in problem situations. 8.2.C. Evaluate a solution for reasonableness.</p>	