















Technology-Connected Lesson Plan

Title:	Prealgebra, Teach to Learn Lesson One: Whole Numbers: Concepts 1, 2, and 3
Grade Levels:	6-8
Curriculum Areas:	Math
Lesson Objectives:	<p>The student will:</p> <ul style="list-style-type: none"> Use the symbols \leq, $<$, $=$, $>$, or \geq to compare two numbers Find the place value of a digit in a number Read a large number Add whole numbers Subtract whole numbers Solve equations that contain whole numbers
Content Standards:	<p>Number and Number Relations In problem-solving investigations, students demonstrate an understanding of the real number system and communicate the relationships within that system using a variety of techniques and tools.</p> <p>Algebra In problem-solving investigations students demonstrate an understanding of concepts and processes that allow them to analyze, represent, and describe relationships among variable quantities and to apply algebraic methods to real-world situations</p> <ul style="list-style-type: none"> • N-2-M demonstrating number sense and estimation skills to describe, order, and compare rational numbers (e.g., magnitude, integers, fractions, decimals, and percents); • N-4-M demonstrating a conceptual understanding of the meaning of the basic arithmetic operations (add, subtract, multiply and divide) and their relationships to each other; • N-5-M applying an understanding of rational numbers and arithmetic operations to real-life situations; • N-6-M constructing, using, and explaining procedures to compute and

	<p>estimate with rational numbers employing mental math strategies;</p> <ul style="list-style-type: none"> • N-7-M selecting and using appropriate computational methods and tools for given situations involving rational numbers (e.g., estimation, or exact computation using mental arithmetic, calculator, computer, or paper and pencil); • N-8-M demonstrating a conceptual understanding and applications of proportional reasoning (e.g., determining equivalent ratios, finding a missing term of a given proportion).
Technology Guidelines:	<ul style="list-style-type: none"> • Understand and apply common troubleshooting techniques. (6) • Demonstrate the operations of a computer (e.g., touch-keyboarding skills, save, organize and back-up files) and other peripheral devices (scanner, digital and video cameras, VCR, laser disc player) at an intermediate level. (6) • Use information, media, and technology in a responsible manner which includes following the school's acceptable use policy, adhering to copyright laws, respecting the rights of others, and employing proper etiquette in all forms of communication. (4, 5) • Determine when technology is useful and select the appropriate tool(s) and technology resources to address a variety of tasks and problems. (2)
Technology Connection:	<ul style="list-style-type: none">  Prealgebra Interactive Mathematics CD Topic 1  Infocus  PowerPoint
Assessment:	<ul style="list-style-type: none">  Prealgebra Evaluation
Procedures:	<ul style="list-style-type: none">  The teacher assigns each pair of students on section of Topic 1, Whole Numbers.  The teacher explains that each group of students will "teach" the assigned section. <ul style="list-style-type: none">  Some parts will be review.  Some parts will be new to some people.  Each student is to review each section of his assigned part by doing the lessons. <ul style="list-style-type: none">  Overview- Gives a preview of the lesson objectives and allows you to take a pretest.  Explain - Explain introduces you to new concepts and procedures. Practice problems are included to check your understanding of each concept.  Apply - Provides you with a series of practice problems to

	<p>help you build your understanding of the new material.</p> <ul style="list-style-type: none"> 🖥️ Explore - Features investigations of everyday applications of mathematics. Each investigation is introduced on the computer and developed in the Personal Academic Notebook. 🖥️ Evaluate - The final lesson quiz is found in Evaluate. After you take the quiz, the program reports your scores to the curriculum manager. 🖥️ Homework - All homework problems appear in the Personal Academic Notebook. Every time you leave a lesson, you will see a list of homework problems for each concept covered in that lesson. (You also see the Homework assignment every time you leave a lesson by selecting Quit from the File Menu. 🖥️ Students will take notes on what they learn, and what they think is important for other students to know. 🖥️ They publish their findings on a PowerPoint slideshow to use when they teach their section. 🖥️ After the class has been taught the Topic 1 sections, they take the Practice Test (Page F1-83) to check for whole class understanding. 🖥️ Students needing further work may begin the Explain part of the lessons for individualized help.
Materials:	Packet of Prealgebra CD's (Tomorrow's Promise) (Stand alone individual learning lessons.) Practice Test on Topic 1 Whole Numbers Printer, Ink, Paper
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