



Gold Seal Lesson

Author(s): Carol D'Agostino			Lesson Title: Football Mania			
Grade Span			ICLE Application Model			
K-4	5-8 X	9-12	A	B	C X	D

Instructional Focus:

Algebraic Concepts and Relationships

Students use algebraic methods to investigate, model, and interpret patterns and functions involving numbers, shapes, data, and graphs in a problem-solving situation. Students evaluate and communicate the reasoning used in solving these problems.

Writing

Students write for a variety of purposes and audiences with sophistication and complexity appropriate to the grade level.

Performance Task

Your school is participating in its homecoming football game. The score after 3 quarters is tied at 14 to 14. You are to design the final quarter of play. Each play should be represented algebraically using positive and negative integers. Additionally, you must write a brief statement describing each play that occurs. At the conclusion of the game your home team should be victorious. Each team must complete a minimum of 8 plays during the final quarter. After the game is completed, write a brief summary of the final quarter of play for your school newspaper.

Note to the teacher: Before assigning this project, the class should participate in a brief discussion about a football game so that all students are familiar with the concepts used in the assignment. (An assignment before this activity would be to have each of your students bring in the statistics and summary of a professional football game to use as the focus of your discussion.)

Possible Additional Activities: Choose one player and compute his statistics for the game. Have each student illustrate his/her final quarter, team uniform, picture for the paper, cheerleader uniform, or etc.

ICLE Essential Skills

Perform operations with signed (positive and negative) numbers, including decimals, ratios, percents, and fractions. (m1)
Understand the best procedures for statistical data collection, organization, and display including making estimates and predictions and drawing inferences. (m5)
Present information in well-organized fashion that will be clear to the target audience. (ela11)
Retell in writing a real-life experience in sequential order. (ela73)
Give oral or written directions that are clear and are understood by another person. (ela2)
Apply in writing the rules and conventions of grammar, usage, punctuation, paragraphing and spelling. (ela1)

Scoring Guide:

4 – The student algebraically represents the given assignment correctly using positive and negative integers. The student communicates in written form using appropriate grammar and mechanics.

3 – The student algebraically represents the given assignment using positive and negative integers correctly the majority of the time. The student communicates in written form using appropriate grammar and mechanics with few errors.

2 – The student algebraically represents the given assignment using positive and negative integers less than half of the time. The student communicates in written form with several grammatical and mechanical errors.

1 – The student minimally represents the given assignment using positive and negative integers. The student communicates in written form with numerous grammatical and mechanical errors.

0 – No attempt is made to complete the assignment.

Keywords

English Language Arts	Mathematics	Science
Reading Comprehension Integration	Algebra Algebraic Operations Equations Manipulatives Math in Daily Lives Problem Solving Symbols	Earth Science
Writing Capitalization Composition Conventions Creative Writing Elements of Writing Grammar Mechanics Newspaper Organization Punctuation	Geometry Algebra	Life Science
Communications Audience Illustration	Statistics Data Display Simulations Statistics in Daily Lives	Chemistry
Literature Summary Voice	Calculus	Physics
Other	Trigonometry	Other
	Other Integers	