



Gold Seal Lesson

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Grade Span			ICLE Application Model			
K-4 X	5-8	9-12	A	B	C	D X

Instructional Focus:

Number Operations and Concepts

Students use number, number sense, and number relationships in a problem-solving situation. Students communicate the reasoning used in solving these problems.

Problem Solving and Mathematical Reasoning

Students apply a variety of problem-solving strategies to investigate and solve problems from across the curriculum as well as from practical applications.

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.

Speaking

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

Listening

Students listen for a variety of purposes appropriate to the grade level.

Performance Task

For this activity, you will need to obtain take-out menus from several restaurants. You may want to give some groups in the class the same menu, but you will not want all the groups to have the same one. Room service menus from local hotels could also be used.

1. Divide students into groups of four. Give each group one of the restaurant menus.
2. Each group is to plan a meal and calculate the cost for their group. You may wish to have the students use a calculator for this activity.
3. Ask each group to prepare a chart with the following headings: Item - Unit Price - Quantity - Total Price.
4. You probably will not want to get involved with tax and tip at this level, but, if you wish to differentiate your instruction, some advanced students may be able to compute the tax and tip. You could also give the students a chart for tax and tip to be added to their total bill for food.
5. You may wish to give each group a budget. Have them plan the meal to stay within that budget.

ICLE Essential Skills

Perform operations with signed (positive and negative) numbers, including decimals, ratios, percents, and fractions. (m1)

Understand basic algebraic properties (i.e., commutative, associative, and distributive properties). (m3)

Understands the best procedures for statistical data collection, organization, and display including making estimates and predictions and drawing inferences. (m5)

Follow oral or written directions. (ela4)

Express opinions clearly and forcefully without interrupting or insulting others. (ela16)

Use brainstorming, role playing, and standard problem solving strategies to define a problem and suggest solutions. (ela19)

Participate, sometimes leading, in group meetings by contributing, taking turns speaking, and working toward a common goal. (ela20)

Scoring Guide:

- 4** The student:
- selects and applies appropriate mathematical procedures and makes no mathematical errors;
 - explores alternate solutions or uses additional approaches.
- 3** The student:
- completes all parts of task;
 - correctly selects and applies mathematical processes with minor errors;
 - uses basic mathematical ideas and procedures appropriately.
- 2** The student:
- incompletely selects and applies appropriate mathematical procedures;
 - makes some errors in mathematical processes.
- 1** The student:
- lacks understanding of process and/or uses inappropriate procedures;
 - makes several errors in calculation
- 0** The student:
- makes no attempt or provides an off-topic response.

Keywords

English Language Arts	Mathematics	Science
Reading	Algebra Problem solving Math in daily life Budget Computation Cost analysis	Earth Science
Writing	Geometry	Life Science
Communications Discussion Listening Illustration	Statistics	Chemistry
Literature	Calculus	Physics
Other	Trigonometry	Other
	Other	