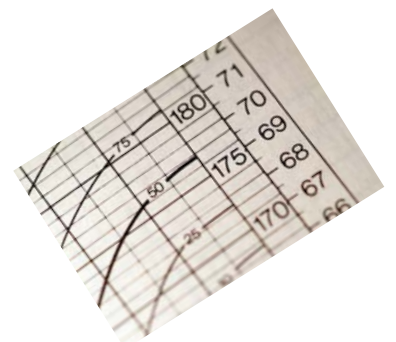




Math Skills for Science Classes



by
Jacalyn S. Nosek





MATH FOR SCIENCE UNIT

I. Introduction & Overview

- A. Grade Level
- B. Objectives and Rationale for Unit

II. Annotated Internet Links

- A. Teacher
- B. Student

III. Teaching Strategies & Lessons

A. Scientific Notation and Decimal Notation

- 1. Lesson Plan
- 2. Decimal Notation to Scientific Notation
Examples
- 3. Scientific Notation to Decimal Notation
Examples
- 4. Calculations
 - a. Multiplication & Examples
 - b. Division & Examples
 - c. Addition & Subtraction & Examples
- 5. Student Practice Worksheet
- 6. Worksheet Answer Key & Rubric
- 7. Quiz
- 8. Quiz Answer Key & Rubric

B. Significant Digits

- 1. Lesson Plan
- 2. Rules/Chart
Examples
- 3. Student Practice Worksheet
- 4. Worksheet Answer Key & Rubric
- 5. Quiz
- 6. Quiz Answer Key & Rubric

C. Conversions

- 1. Lesson Plans
- 2. Charts
 - a. English to Metric
 - b. Metric
 - c. SI Units
- 3. Dimensional Analysis/Factor Label Method
 - a. 1 Step & Examples
 - b. Steps & Examples
 - c. Steps & Examples
- 4. Student Practice Worksheet
- 5. Worksheet Answer Key & Rubric
- 6. Quiz





7. Quiz Answer Key & Rubric

D. Metric Conversions

1. Lesson Plan
2. Diagram
3. Diagramed Conversions
4. Mathematical Conversions
5. Student Practice Worksheets
6. Worksheet Answer Key & Rubric
7. Quiz
8. Quiz Answer Key & Rubric

E. Temperature Conversions

1. Lesson Plan
2. Temperature Scales
 - a. Equations
 - b. Water's Freezing and Boiling Points
3. Conversions
 - a. Fahrenheit to Celsius: Celsius to Fahrenheit
 - b. Celsius to Kelvin: Kelvin to Celsius
 - c. Fahrenheit to Kelvin: Kelvin to Fahrenheit
3. Student Practice Worksheet
4. Worksheet Answer Key & Rubric
5. Quiz
6. Quiz Answer Key & Rubric

F. Density

1. Lesson Plan
2. Discussion
 - a. Equation and its variations
 - b. Examples
3. Student Practice Worksheet
4. Worksheet Answer Key & Rubric
5. Quiz
6. Quiz Answer Key & Rubric

IV. Power Point Presentations

V. Video Clips