

## Unit Plan Overview for the Unit The Math Connection

### **Day 1**

#### **Assessment**

##### **Diagnostic Assessment**

This assessment and instructions are available in the unit-associated files.

#### **Lesson Plan**

##### **When Are We Ever Going to USE this Math?**

Students engage in discussion of various occupations. Where does math fit into the scheme of things? Students are diagnostically assessed to determine proficiency in computer, writing, and problem solving mathematical skills set in real world context.

### **Day 2**

#### **Lesson Plan**

##### **What Interests You?**

Students investigate math in the real world using Web search methods to locate career fields of interest. After selecting an occupation, students draft brief paragraphs that reflect insight as to why the occupation they have chosen interests them.

### **Day 3**

#### **Lesson Plan**

##### **Putting It On Paper**

What are the essential parts to a business letter? Using Web search methods, students locate and print samples of two different business letter formats. Students write rough drafts of business letters inquiring when, where, and how math is used.

## **Day 4**

### **Lesson Plan**

#### **To Whom It May Concern**

Students produce and peer edit typed rough drafts of the business letters following the guidelines illustrated in the Eight Essential Parts of a Business Letter and save to disks. Students complete 'Where's the Math?' scavenger hunt on the Web.

## **Day 5**

### **Summative Assessment #1**

#### **Business Letter**

This assessment and instructions are available in the unit-associated files.

**No Online Lesson for this day**

## **Day 6**

### **Lesson Plan**

#### **Rising and Falling Fractions**

A rise and fall of stock market quotes and fluctuating interest rates are examples encountered in this lesson. Students explore changing interest rates using a loan amortization calculator and see outcomes from a rise and a fall in stock market quotes.

## **Day 7**

### **Lesson Plan**

#### **Does the Decimal Point Really Make a Difference?**

What's the problem with cheeseburgers advertised for .99 cents each or colas for .89 cents each? Students study the decimal dilemma and discover major math mistakes in the real world.

## **Day 8**

### **Lesson Plan**

#### **What Does Percent Have to Do with It?**

Confused about percentages at the mall? Students go shopping for a true real-life experience involving percent. Exposure to percent relative to sales tax and discount prices is experienced in this lesson.

## **Day 9**

### **Lesson Plan**

#### **The Large and Small of It**

It is hard to envision the distance to the Moon without thinking about a very large number. Yet, a lunar dust particle is so small, several fit on the tip of a pinhead! Students explore the extreme solving problems related to the Apollo space missions.

## **Day 10**

### **Lesson Plan**

#### **Where's the Math?**

The math connection unfolds! Students develop an original math problem with detailed solution key relative to the chosen career fields. Watch creativity soar!

## **Day 11**

### **Summative Assessment #2**

#### **Putting It On Paper - Final Report with Original Math Problem**

This assessment and instructions are available in the unit-associated files.

**No Online Lesson for this day**

## **Day 12**

### **Summative Assessment #3**

#### **Pulling It All Together – Project Evaluation**

This assessment and instructions are available in the unit-associated files.

**No Online Lesson for this day**