### **Course Overview**

In Career Math, students study and review arithmetic skills they can apply in their personal lives and in their future careers. The course focuses on occupational topics; it includes details on jobs, wages, deductions, taxes, insurance, recreation and spending, travel, and transportation. In addition, students learn about personal finances, banking, loans, credit cards, and buying a home and car.

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Scope	Ana	Sequence	

Timeframe	Unit	Instructional Topics
5 Week(s)	Wages	<ol> <li>Wages</li> <li>Time Worked</li> <li>Other Kinds of Payments</li> <li>Annual Income</li> <li>Commissions</li> </ol>
5 Week(s)	Benefits & Insurance	<ol> <li>Types of Insurance</li> <li>Health Benefits</li> <li>Insurance Benefits</li> <li>Casualty and Auto Insurance</li> <li>Cost of Insurance</li> <li>Life Insurance</li> <li>Insurance Benefits</li> <li>Insurance Benefits</li> </ol>
5 Week(s)	Kinds of Businesses	1. Manufacturing 2. Sales 3. Retail 4. Service 5. Nonprofit Businesses 6. Sales Receipts 7. Unit Prices
3 Week(s)	Human Resources Department	Staffing     Hiring     Employee Performance     Labor Issues
5 Week(s)	Taxes	Social Security taxes     Medicare Taxes     State taxes     Tax forms and w2's
6 Week(s)	Interest	Compound Interest     Simple Interest
5 Week(s)	Stock Market	Stock market vocab     Stock market navigation

## **Course Details**

Unit: Wages Duration: 5 Week(s)

## **Unit Description**

Determine earning based on different payment types.

Find the number of hours worked, including overtime hours.

Calculate annual income.

Determine the number of pay period in a year.

Calculate the amount earned during a pay period.

Understand the difference between gross pay and net pay.

### **Academic Vocabulary**

hourly rate

wage

annual wage

living wage

deductions gross pay

take-home pay/net pay

a.m.

p.m.

time card

double time

#### Mathematics

Grade(s) 11th - 12th, Duration 1 Year, 1 Credit
Flective Course

overtime

time and a half

tip

percentage

piecework

minimum wage

annually

bimonthly

biweekly

quarterly salary

ouldi y

semimonthly

commission

rate of commission

bonus

#### **Summative Assessment**

chapter review and chapter test, pages 30-31

### Materials and Resources (optional)

Math for the World of Work, 2002 AGS American Guidance Service

Topic: Wages Duration: 2 Day(s)

#### **Topic Description (short)**

Calculate weekly wages and annual wages. Find net pay.

### **Learning Targets**

The student will calculate weekly wages and annual wages.

The student will calculate net pay.

Learning Targets linked to Priority Standard = ♣

Topic: Time Worked Duration: 2 Day(s)

## **Topic Description (short)**

Calculate time worked, including regular and overtime hours. Find time and a half and double time pay rates. Calculate annual earnings.

#### **Learning Targets**

The student will calculate time worked, including regular and overtime hours.

The student will calculate time and a half and double time wages.

Learning Targets linked to Priority Standard = ♣

Topic: Other Kinds of Payments

Duration: 2 Day(s)

## Topic Description (short)

Determine total income earned from regular wages and tips combined. Calculate wages based on a piecework rate.

## **Learning Targets**

The student will determine total income earned from regular wages and tips combined.

The student will calculate wages based on a piecework rate.

Learning Targets linked to Priority Standard = ♣

Topic: Annual Income Duration: 2 Day(s)

## **Topic Description (short)**

Calculate annual income using minimum wage. Find the number of times per year a worker is paid. Calculate income earned during a pay period.

## **Learning Targets**

The student will calculate annual income using hourly wages.

The student will find the number of times per year a worker is paid.

The student will calculate income earned during a pay period.

Learning Targets linked to Priority Standard = ♣

Topic: Commissions Duration: 2 Day(s)

## **Topic Description (short)**

Calculate the commission earned on sales. Analyze the relationship between commission rate and sales amount. Calculate total earnings from salary plus commission. Forecast the total sales needed to earn a specific income from commissions. Define and compute bonuses.

## **Learning Targets**

### Mathematics

Grade(s) 11th - 12th, Duration 1 Year, 1 Credit Elective Course

The student will calculate the commission earned on sales.

The student will analyze the relationship between commission rate and sales amount.

The student will calculate total earnings from salary plus commission.

The student will forecast the total sales needed to earn a specific income from commissions.

The student will define and compute bonuses.

Learning Targets linked to Priority Standard = ♣

Duration: 5 Week(s)

# Unit: Benefits & Insurance

Understand life, auto, health, and home insurance and calculate benefits.

### **Academic Vocabulary**

benefit co-payment

coverage

**Unit Description** 

insured

premium

. deductible

out-of-pocket expense

beneficiary life insurance

life expectancy table

casualty insurance

liability insurance

bodily injury

collision

comprehensive

medical

property damage

rider

### **Summative Assessment**

chapter review and chapter test, page 50-51

## Materials and Resources (optional)

Math for the World of Work. 2002 AGS American Guidance Service

## **Topic:** Types of Insurance **Duration:** 2 Day(s)

#### **Topic Description (short)**

Discuss the different types of insurance and terminology.

## Topic: Health Benefits Duration: 4 Day(s)

## **Topic Description (short)**

Compute the employee's, employer's, and insurance company's costs for health insurance and medical claims.

## Topic: Insurance Benefits Duration: 2 Day(s)

## **Topic Description (short)**

Understand the terms life insurance and beneficiary as they apply to employment benefits. Use a life expectancy table to make predictions.

## **Topic:** Casualty and Auto Insurance **Duration:** 2 Day(s)

## **Topic Description (short)**

Identify types of insurance that businesses need and the relative costs of each type. Define five types of auto insurance and compute annual insurance premiums.

## Topic: Cost of Insurance Duration: 2 Day(s)

## **Topic Description (short)**

Compute premiums for fire/theft and auto insurance. Define a policy rider.

## Topic: Life Insurance Duration: 2 Day(s)

## **Topic Description (short)**

Calculate life insurance premiums.

Mathematics

Grade(s) 11th - 12th, Duration 1 Year, 1 Credit

Elective Course

Duration: 2 Day(s)

**Topic:** Insurance Benefits

### **Topic Description (short)**

Understand the terms life insurance and beneficiary as they apply to employments benefits. Use a life expectancy table to make predictions.

Topic: Insurance Benefits

Duration: 2 Day(s)

### **Topic Description (short)**

Understand the terms life insurance and beneficiary as they apply to employments benefits. Use a life expectancy table to make predictions.

Unit: Kinds of Businesses Duration: 5 Week(s)

### **Unit Description**

Calculate a production schedule and determine the quantity of goods to produce. Calculate sales needed to meet revenue goals. Understand the relationship between price reductions and profits. Determine the staffing needs of retail businesses. Determine the amount of equipment and number of employees needed to meet customer expectations. Calculate operating expenses and analyze fund-raising campaign for nonprofit organizations.

## **Academic Vocabulary**

production schedule

in stock

revenue

discount

peak hour

retail store inventory

service business

budget

donation

nonprofit business

### **Summative Assessment**

Chapter review and chapter test, pages 74-75

#### Materials and Resources (optional)

Math for the World of Work, 2002 AGS

Topic: Manufacturing Duration: 2 Day(s)

### **Topic Description (short)**

Develop a production schedule. Calculate the quantity of goods to produce to meet production goals.

Topic: Sales Duration: 2 Day(s)

## **Topic Description (short)**

Calculate sales needed to meet revenue goals. Calculate discounts and understand how they diminish profits.

Topic: Retail Duration: 2 Day(s)

## **Topic Description (short)**

Compute staffing needs. Determine how selling discounted items can help manage inventory and still allow a business to make a profit.

Topic: Service Duration: 2 Day(s)

## **Topic Description (short)**

Calculate the amount of supplies and number of employees needed by a cleaning business.

Topic: Nonprofit Businesses Duration: 2 Day(s)

## **Topic Description (short)**

Calculate a budgeted expense based on its percent of an annual budget. Analyze the results of fund-raising campaigns.

Topic: Sales Receipts

Duration: 2 Day(s)

## **Topic Description (short)**

Calculate sales slip totals.

Topic: Unit Prices Duration: 2 Day(s)

Page 4

Mathematics

Grade(s) 11th - 12th, Duration 1 Year, 1 Credit
Flective Course

Duration: 3 Week(s)

### **Topic Description (short)**

Calculate and compare unit prices. Calculate unit prices from group prices.

## Unit: Human Resources Department

#### **Unit Description**

Determine staffing needs in different situations.

Compare unemployment figures for different parts of the country

Calculate staff turnover in large corporation

Calculate raises base on employee performance

Understand the relationships between poverty level and number of dependent, and inflation and cost of living increases.

Compare the costs of training and education with income potential.

Graph median incomes for various occupations.

## **Academic Vocabulary**

staff

sales force

territory

labor force

unemployed

unemployment rate

turnover

raise

semiannually

dependent

poverty level

cost of living increase

labor union

inflation

#### **Summative Assessment**

chapter review and chapter test, pages 96-97

### Materials and Resources (optional)

Math for the World of Work, 2002 AGS

Topic: Staffing Duration: 2 Day(s)

## **Topic Description (short)**

Determine staffing needs to meet production goals. Calculate the number of people needed to support a company sales force.

Topic: Hiring Duration: 2 Day(s)

### **Topic Description (short)**

Compare unemployment figures for different parts of the country. Calculate staff turnover.

Topic: Employee Performance Duration: 2 Day(s)

## **Topic Description (short)**

Calculate raises based on employee performance.

Topic: Labor Issues Duration: 2 Day(s)

## **Topic Description (short)**

Identify income that is above or below poverty level. Describe inflation and calculate cost of living increases. Compare costs of training and education with potential for increased income.

Unit: Taxes Duration: 5 Week(s)

## **Unit Description**

Learning about taxes and practice filing tax forms. Understanding basic tax vocab.

Topic: Social Security taxes

Duration: 1 Week(s)

## **Topic Description (short)**

Learn about social security tax and how they are taken out and used.

## **Learning Targets**

Mathematics

Grade(s) 11th - 12th, Duration 1 Year, 1 Credit Elective Course

Understand Social security tax and how it's used by the government.

## **Learning Targets**

Learn how taxes are used by the government

Learning Targets linked to Priority Standard = ♣

Topic: Medicare Taxes

Duration: 1 Week(s)

#### **Topic Description (short)**

Learn about Medicare taxes, how they are calculated and used by the government.

#### **Learning Targets**

Explain the purpose of standard deductions such as income taxes, social security (FICA), Medicare, deductions for health care and retirement savings plans.

Explain the purpose of standard deductions such as income taxes, social security (FICA), Medicare, deductions for health care and retirement savings plans.

Learning Targets linked to Priority Standard = ♣

Topic: State taxes

Duration: 1 Week(s)

#### **Topic Description (short)**

Learn about how state taxes are calculated and used by the state.

#### **Learning Targets**

Explain the purpose of standard deductions such as income taxes, social security (FICA), Medicare, deductions for health care and retirement savings plans.

Learning Targets linked to Priority Standard = ♣

Topic: Tax forms and w2's Duration: 1 Week(s)

#### **Topic Description (short)**

Learn about common tax forma and what they are used for.

#### Learning Targets

Learn how to fill out tax forms and what tax forms are used for what part of filing taxes Learn how to fill out tax forms and what tax forms are used for what part of filing taxes

Learning Targets linked to Priority Standard = 4

Unit: Interest Duration: 6 Week(s)

#### **Unit Description**

Simple and compound interest. Comparing types of bank loans.

Topic: Compound Interest Duration: 3 Week(s)

## **Topic Description (short)**

Learn about how to calculate compound interest and what kinds of loans use compound interest.

## **Learning Targets**

Calculate total interest on loans

Learning Targets linked to Priority Standard = 4

Topic: Simple Interest Duration: 3 Week(s)

#### **Topic Description (short)**

Learn how to calculate simple interest and what kinds of loans use simple interest

#### **Learning Targets**

calculate simple and compound interest on different types of bank loans

Learning Targets linked to Priority Standard = ♣

Unit: Stock Market Duration: 5 Week(s)

#### **Unit Description**

Learning about and navigating the stock market.

Topic: Stock market vocab

Duration: 1 Week(s)

Mathematics

Grade(s) 11th - 12th, Duration 1 Year, 1 Credit Elective Course

## **Topic Description (short)**

Learn common vocab for the stock market

## **Learning Targets**

Learn vocab of the stock market world

Learning Targets linked to Priority Standard = ♣

Topic: Stock market navigation

**Duration:** Ongoing

## **Topic Description (short)**

Learn how to navigate the stock market, look for trends, and how to use the stock market to earn money

## **Learning Targets**

Learn what stocks are doing well and what stocks are doing poorly

"Purchase" stocks and track them over several weeks to see trends and if we can make any money

Learning Targets linked to Priority Standard = ♣