

ECONOMICS EDUCATION

and FINANCIAL LITERACY:

Objectives and Correlations to Mathematics and History and Social Science Standards of Learning and Career and Technical Education Competencies

Commonwealth of Virginia
Board of Education
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The 2006 *Economics Education and Financial Literacy Objectives* can be found in PDF and Microsoft Word file formats on the Virginia Department of Education's Web site at http://www.doe.virginia.gov.

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INTRODUCTION

Purpose

In accordance with legislation from the General Assembly of Virginia, this document presents economics education and financial literacy objectives required of all students at the middle and high school levels to "further the development of knowledge, skills, and attitudes needed for responsible citizenship in a constitutional democracy." The objectives are correlated to the Virginia Mathematics Standards of Learning and History and Social Science Standards of Learning, and the Career and Technical Education competencies. School divisions have flexibility in determining the format and strategies used to help middle and high school students meet the requirement.

Background

On March 26, 2005, the General Assembly approved SB 950, a bill directing the Virginia Board of Education to "establish objectives for economic education and financial literacy."

The Code of Virginia (Section 22.1-200.03 B) specifies:

- By July 1, 2006, the Board of Education shall develop and approve objectives for economics education and financial literacy at the middle and high school levels, that shall be required of all students, and shall provide for the systematic infusion of economic principles in the relevant Standards of Learning, and in career and technical education programs.
- The economics education and financial literacy objectives shall include, but need not be limited to:
 - personal living and finances
 - personal and business money management skills
 - opening an account in a financial institution
 - judging the quality of a financial institution's services
 - balancing a checkbook
 - completing a loan application
 - implications of an inheritance
 - basics of personal insurance policies
 - consumer rights and responsibilities

- dealing with merchants
- debt management
- managing retail and credit card debt
- state and federal tax computations
- local tax assessments
- computation of interest rates
- understanding simple contracts
- how to contest an incorrect bill

• The board shall not be required to evaluate student achievement concerning economic education and financial literacy objectives in the Standards of Learning assessments required by 22.1-253.13:3.

In response to this legislation, the Virginia Department of Education convened a representative group of stakeholders to assist in the development of objectives for economics education and financial literacy. A list of resources is also available to assist teachers in providing instruction to meet these objectives.

ECONOMICS EDUCATION AND FINANCIAL LITERACY: SUMMARY OF TOPICS AND OBJECTIVES

Topics	Objectives
ECONOMICS	Objective 1: The student will evaluate the impact of fundamental principles of economics on personal finances.
INCOME	Objective 2: The student will analyze how career choice, education, and skills affect income and goal attainment. Objective 3: The student will compute taxes.
MONEY MANAGEMENT	Objective 4: The student will develop a budget/spending plan for personal/business money management (earning, spending, saving, and investing). Objective 5: The student will judge the quality of a financial institution's services. Objective 6: The student will demonstrate how to open and manage an account in a financial institution. Objective 7: The student will examine the basics of personal insurance policies.
SPENDING AND CREDIT	Objective 8: The student will complete the process for obtaining a loan. Objective 9: The student will examine credit card options. Objective 10: The student will analyze strategies for debt management. Objective 11: The student will interact effectively with salespersons and merchants. Objective 12: The student will describe consumer rights and responsibilities. Objective 13: The student will examine the implications of simple contracts.
SAVING AND INVESTING	Objective 14: The student will compare consumer choices for saving and investing. Objective 15: The student will examine the financial implications of an inheritance.

TOPIC: ECONOMICS

OBJECTIVE 1

The student will evaluate the impact of fundamental principles of economics on personal finances.

ESSENTIAL KNOWLEDGE AND SKILLS

- Examine fundamental principles of economics.
 - Wants vs. needs
 - Scarcity (e.g., of time, space, money)
 - Opportunity cost / trade-offs
 - Supply and demand
 - Competition
 - Inflation
- Apply economic principles to personal finances.
 - Explain how limited personal financial resources affect the choices people make.
 - Interpret the opportunity costs of financial decisions.
 - Apply a decision-making process to personal financial choices.
 - Summarize how inflation affects spending and saving decisions.
- Analyze how economic conditions affect income and goal attainment.
 - Investigate the effects of government on the economy (e.g., market influence, taxes, regulations, environment).
 - Examine the functions of depositories.

STANDARDS OF LEARNING			N COURSES		
Middle School	High School	iddle School High School Middle Sch		ool High School	
History and Social Science CE.9 CE.11	History and Social Science WG.7 GOVT.15 GOVT.16	Business and Information Technology 6115/6116 Marketing 8115/8116	Business and Information Technology 6115/6116 6120/6121 Career Connections 9072 9093 9094 Family and Consume. Sciences 8205/8282 8237/8238 Marketing 8115/8116 8120/8121 8130/8131 8180/8181		

TOPIC: INCOME

OBJECTIVE 2

The student will analyze how career choice, education, and skills affect income and goal attainment.

- Correlate career choice to education, income, and goal attainment.
- Correlate education to career choice, income, and goal attainment.
- Correlate skills to career choice, income, and goal attainment.
- Analyze the impact of cost of living on career choice.
- Identify trends that cause changes in the labor market.

CORRELATIONS	

STANDARDS OF LEARNING		CAREER AND TECHNICAL EDUCATION COURSES		
Middle School	High School	Middle School	High School	
Mathematics 6.6 6.8 6.18 7.4 7.16 7.17 7.18 8.3 8.12 8.14 8.17 History and Social Science USII.7 CE.12	History and Social Science GOVT.15d WG.7		Agricultural Education 8014 Business and Information Technology 6120/6121 Marketing 8130/8131 8180/8181 Family and Consumer Sciences 8277/8278/8213 8209/8210 8226/8227 8214/8219 8205/8282 Trade and Industrial Education 8901/8902/8903/ 8904	

TOPIC: INCOME

OBJECTIVE 3

The student will compute taxes.

- Describe the purposes of taxation and how tax resources are used.
- Relate taxes, government transfer payments (deductions), and employee benefits to disposable income.
- Compute state and federal taxes.
 - Income
 - Sales
 - Self-employed businessperson or independent contractor
 - Business
- Compute local taxes.
 - Sales
 - Food
 - Real estate
 - Utility
 - Lodging
 - Personal property

STANDARDS OF LEARNING			CAREER AND TECHNICAL EDUCATION COURSES		
Middle School	High School	ddle School High School Middle School		High School	
Mathematics 7.4 8.3 History and Social Science CE.11	Mathematics A.2 History and Social Science GOVT.18	Business and Information Technology 6115/6116 Family and Consumer Sciences 8214/8219 Marketing 8115/8116	Agricultural Education 8014 8018 8022 8042 Business and Information Technology 6115/6116 6120/6121 Career Connections 9094 Family and Consume Sciences 8214/8219 Marketing 8115/8116 Trade and Industrial Education 8901/8902/8903/ 8904		

OBJECTIVE 4

The student will develop a budget/spending plan for personal/business money management (earning, spending, saving, and investing).

ESSENTIAL KNOWLEDGE AND SKILLS

- Set financial goals.
- Identify components and sources of income.
- Relate employee benefits to disposable income.
- Estimate income (gross pay versus net pay).
- Estimate expenses.
- Construct a budget/spending plan.
 - Fixed expenses
 - Variable expenses
 - Options for financing education (e.g., dual enrollment, college tuition savings plans, veterans' educational assistance, scholarships, student loans)
 - Housing decisions (e.g., renting vs. buying vs. living at home, living alone or with a roommate)
 - Impact of resource and energy conservation practices
 - Savings
 - Retirement planning

STANDARDS OF LEARNING		CAREER AND TECHNICAL EDUCATION COURSES		
Middle School	High School	Middle School	High School	
Mathematics 6.6 6.7 6.8 6.18 7.4 7.5 7.16 7.17 7.18 8.3 8.12 History and Social Science USII.7 CE.4 CE.12	History and Social Science WG.7 GOVT.16 GOVT.17	Agricultural Education 8072 Family and Consumer Sciences 8211/8212 8214/8219 8204/8206/8208/8241/8242/8243/8244/8245	Agricultural Education 8014 8022 8024 8042 8072/8073 Business and Information Technology 6120/6121 Career Connections 9020 9078 9093 9094 Family and Consumer Sciences 8214/8219 8277/8278 8213 8264/8265 8226/8227 8205/8282 Health and Medical Sciences 8332 Marketing 8180/8181 Trade and Industrial Education 8901/8902/8903/ 8904	

OBJECTIVE 5

The student will judge the quality of a financial institution's services.

- Assess personal banking needs.
- Compare financial institutions in terms of personal banking needs.
 - Costs and benefits of various financial institutions such as banks, credit unions, thrifts
 - Interest rates
 - Services (e.g., checking and savings accounts, ATM, debit cards, online banking, direct deposit, automatic bill paying and other transfers, money market accounts)
 - Fees
 - Customer relations

STANDARDS OF LEARNING			CAREER AND TECHNICAL EDUCATION COURSES		
Middle School	iddle School High School	Middle School	High School		
Mathematics 6.1 6.4 7.1 7.4 7.5 7.6 8.3 8.12 8.13 History and Social Science USII.8 CE.4 CE.10 CE.12	History and Social Science VUS.14 GOVT.17	Business and Information Technology 6115/6116 Family and Consumer Sciences 8211/8212 8214/8219 Marketing 8115/8116	Agricultural Education 8024 Business and Information Technology 6115/6116 6120/6121 Career Connections 9020 9078 9094 Marketing 8115/8116 8180/8181 Family and Consumer Sciences 8226/8227 8214/8219 8205/8282 Trade and Industrial Education 8901/8902/8903/ 8904		

OBJECTIVE 6

The student will demonstrate how to open and manage an account in a financial institution.

ESSENTIAL KNOWLEDGE AND SKILLS

- Simulate opening an account (i.e., checking, savings, certificates of deposit).
- Simulate managing an account.
 - Keeping accurate records
 - Reconciling a checkbook register with an account statement
 - Handling an overdraft
 - Paying fees (e.g., for checkbooks, failure to maintain minimum balance, insufficient funds, use of ATMs of other banks, overdraft protection, early withdrawals)
 - Online vs. manual account management
 - o Online banking and bill pay
 - o Digital checking
 - o Automatic check clearing (Check 21)
- Simulate using the services available from financial institutions.
 - Explain the differences, benefits, and risks of ATM cards, debit cards, and credit cards.
- Evaluate information about products and services available from a financial institution.
 - Interest rates (simple interest, compound interest, Rule of 72)
 - Account disclosure statements

STANDARDS OF LEARNING		STANDARDS OF LEARNING CAREER AND TECHN EDUCATION COURS		
Middle School	High School	Middle School	High School	
Mathematics	History and Social	Business and	Agricultural	
6.6 6.7	Science VUS.14	Information Technology	Education 8014	
7.4	GOVT.17	6115/6116	8022	
7.5	00 / 1.17		8024	
8.3 History and Social Science USII.8 CE.10		Marketing 8115/8116	Business and Information Technology 6115/6116 6120/6121	
			Career Connections 9020 9078	
			Family and Consumer Sciences 8277/8278/8213 8226/8227 8214/8219 8205/8282	
			Marketing 8115/8116	
			Trade and Industrial Education 8901/8902/8903/ 8904	

OBJECTIVE 7

The student will examine the basics of personal insurance policies.

- Evaluate insurance as a risk management strategy.
- Explain why insurance needs change throughout one's life cycle.
- Examine types of insurance to understand choices available.
 - Automobile
 - Property (homeowners and renters)
 - Health/medical
 - Disability
 - Life
 - o Term
 - o Whole life
 - Long-term care
 - Professional liability

STANDARDS OF LEARNING		CAREER AND ' EDUCATION		
Middle School	High School	Middle School	High School	
Mathematics 8.3 8.17 History and Social Science CE.9 CE.11	History and Social Science GOVT.17c	Business and Information Technology 6115/6116 Family and Consumer Sciences 8211/8212 Marketing 8115/8116	Agricultural Education 8014 8024 8042 Business and Information Technology 6115/6116 6120/6121 6131/6132 Career Connections 9020 9078 9094 Family and Consume. Sciences 8214/8219 8277/8278/8213 8226/8227 8205/8282 Marketing 8115/8116 8180/8181 Trade and Industrial Education 8901/8902/8903/ 8904	

OBJECTIVE 8

The student will complete the process for obtaining a loan.

ESSENTIAL KNOWLEDGE AND SKILLS	CORRELATIONS				
• Explain the concept of a loan.	STANDARDS O	OF LEARNING	CAREER AND TECHNICAL EDUCATION COURSES		
 Purpose Requirements Responsibilities Describe types of loans. Automobile Personal 	Middle School History and Social Science CE.10 CE.11 Mathematics 6.1 7.4 8.1	High School History and Social Science GOVT.17	Middle School Family and Consumer Sciences 8214/8219	High School Agricultural Education 8014 8042 Business and Information Technology 6120/6121	
 Home equity Home mortgage Student Secured (collateral) and unsecured (non-collateral) 	8.3			Career Connections 9020 9078 9094 Family and Consumer	
 Examine a variety of loan sources. Compare interest rates available for loans. Complete a loan application. Evaluate factors that affect creditworthiness. Explain the purpose and components of credit reports (including the credit report score) and laws affecting credit. Evaluate the terms and conditions of consumer loans, including length of time to pay off loans. 				Sciences 8214/8219 8226/8227 8205/8282 Marketing 8180 Trade and Industrial Education 8901/8902/8903/ 8904	

OBJECTIVE 9

The student will examine credit card options.

ESSENTIAL KNOWLEDGE AND SKILLS

- Compare annual fees.
- Compare late payment penalties.
- Compare allowable maximum balances.
- Analyze promotional incentives (e.g., magazine subscriptions, coupon books, flyer miles, purchase protection plans).
- Analyze a credit card application.
- Analyze the benefits and cost of consumer credit.
- Compare sources of consumer credit.
- Evaluate the terms and conditions of credit cards.
- Compare annual percentage rates (APR).
- Read and comprehend the terms and conditions of various credit cards, considering credit card laws and regulations.

STANDARDS OF LEARNING		CAREER AND TECHNICAL EDUCATION COURSES		
Middle School	High School	Middle School	High School	
History and Social Science CE.11 Mathematics 6.1 7.1 7.4 8.1 8.3	History and Social Science GOVT.15 GOVT.17	Business and Information Technology 6115/6116 Family and Consumer Sciences 8211/8212 8214/8219 Marketing 8115/8116	Agricultural Education 8026 8042 Business and Information Technology 6115/6116 6120/6121 Career Connections 9020 9078 Family and Consumer Sciences 8214/8219 8277/8278/8213 8205/8282 8226/8227 Marketing 8115/8116 8120/8121 8180/8181 Trade and Industrial Education 8901/8902/8903/ 8904	

OBJECTIVE 10

The student will analyze strategies for effective debt management.

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Propose ways to avoid or correct credit problems.

- Maintaining a record-keeping system for credit purchases
- Ensuring safekeeping of credit and credit cards
- Avoiding late payment and other penalties
- Examining debt payment plans
 - Pros and cons of early payoffs
- Identifying warning signs of debt problems (e.g., default notices, repossessions, collection agencies, liens, garnishment, foreclosure, repossession, and eviction)
- Describing the benefits of credit counseling
- Understanding the implications of bankruptcy in light of the new bankruptcy laws
- Rebuilding credit

STANDARDS OF LEARNING		CAREER AND TECHNICAL EDUCATION COURSES		
Middle School	High School	Middle School	High School	
Mathematics 6.7 6.8 7.4 8.3 8.17 History and Social Science CE.4 CE.10 CE.11 CE.12	Mathematics A.1 A.2 History and Social Science GOVT.17 GOVT.18	Family and Consumer Sciences 8214/8219	Agricultural Education 8014 Business and IT 6120/6121 6131/6132 Career Connections 9020 9078 9094 Family and Consume Sciences 8214/8219 8223/8225 8264/8265 8277/8278/8213 8226/8227 8205/8282 Trade and Industrial Education 8901/8902/8903/ 8904	

OBJECTIVE 11

The student will interact effectively with salespersons and merchants.

ESSENTIAL KNOWLEDGE AND SKILLS

- Evaluate the pros and cons of sales incentives.
 - Discounts
 - Coupons
 - Rebates
 - Customer cards
 - Special offers
- Evaluate advantages and disadvantages of purchasing, leasing, and renting.
- Practice comparison shopping.
 - Research best buys among products/services/companies
 - Unit pricing
- Negotiate prices/terms.
- Contest an incorrect bill.
 - Verification of receipt
 - Comparison to previous bills

STANDARDS OF LEARNING		CAREER AND TECHNICAL EDUCATION COURSES		
Middle School	High School	Middle School	High School	
Mathematics 6.1 6.2 6.6 6.7 6.8 7.4 7.6 8.3 8.17 History and Social Science CE.9 CE.11 CE.12	History and Social Science GOVT.16 GOVT.17 GOVT.18	Business and Information Technology 6115/6116 Family and Consumer Sciences 8206/8208/8244/ 8245 8214/8219 Marketing 8115/8116	Agricultural Education 8018 8022 8042 Business and Information Technology 6115/6116 6120/6121 Family and Consume Sciences 8214/8219 8264/8265 8277/8278/8213 8226/8227 8205/8282 Marketing 8115/8116 8132 Trade and Industrial Education 8901/8902/8903/ 8904	

OBJECTIVE 12

The student will describe consumer rights and responsibilities.

ESSENTIAL KNOWLEDGE AND SKILLS	CORRELATIONS			
• Ensure consumer protection.	STANDARDS OF LEARNING		CAREER AND TECHNICAL EDUCATION COURSES	
 Paper and electronic receipts Guarantees Warranties Purchase agreements Laws (e.g., safeguarding credit, privacy, health care) Product labeling Product recalls Maintain consumer vigilance. Fraud, including early fraud detection Identify theft Annual credit reports E-commerce Advertisements Infomercials Accept consumer responsibilities. Energy-saving products/ measures Environmentally sustainable options (e.g., recycling, conservation, land use) Charitable giving Record-keeping and retention of records 	Middle School Mathematics 6.6 6.7 6.8 7.4 8.3 8.17 History and Social Science CE.1 CE.11	High School Mathematics A.4 History and Social Science VUS.14 GOVT.15 GOVT.16 GOVT.17	Middle School Business and Information Technology 6115/6116 Family and Consumer Sciences 8214/8219 Marketing 8115/8116	## High School Agricultural Education 8018 8022 8042 Business and Information Technology 6115/6116 6120/6121 6131/6132 Family and Consumer Sciences 8214/8219 8277/8278/8213 8226/8227 8205/8282 Health and Medical Sciences 8332 8360/8362 Marketing 8115/8116 8130/8131 8180/8181 Trade and Industrial Education 8901/8902/8903/ 8904

OBJECTIVE 13

The student will examine the implications of simple contracts.

- Describe the purposes of a contract.
- Identify legal responsibilities incurred when signing a contract.
- Examine types of contracts.
 - Loan agreement
 - Co-signing loans
 - Purchase agreements for products and services (e.g., cellular phone)
 - Property rental contract
 - Movie rentals, book/movie/DVD clubs
 - Three-day rescission law on mortgage and certain other purchases

STANDARDS OF LEARNING		CAREER AND TECHNICAL EDUCATION COURSES		
Middle School	High School	Middle School	High School	
History and Social Science CE.4 CE.12	History and Social Science GOVT.16	Business and Information Technology 6115/6116 Marketing 8115/8116	Agricultural Education 8014 8022 8042 Business and Information Technology 6115/6116 6120/6121 6131/6132 Family and Consum Sciences 8214/8219 Marketing 8115/8116	

TOPIC: SAVING AND INVESTING

OBJECTIVE 14

The student will compare consumer choices for saving and investing.

ESSENTIAL KNOWLEDGE AND SKILLS	CORRELATIONS			
 Compare and contrast saving and investing. 	STANDARDS OF LEARNING		CAREER AND TECHNICAL EDUCATION COURSES	
 Role of risk 	Middle School	High School	Middle School	High School
Reasons to saveReasons to invest	Mathematics 6.6 6.7	Mathematics A.1 A.2	Family and Consumer Sciences 8211/8212	Business and Information Technology
• Analyze interest rates.	6.7 6.8 7.4	A.4	8211/8212	6120/6121
 Compound vs. simple interest Simple interest calculation Compound interest calculation Tools for calculating interest Fluctuation of interest rates 	7.4 7.6 7.18 8.3 8.12 8.14 8.17	History and Social Science GOVT.17		Career Connections 9020 9078 9094 Family and Consumer Sciences
 Evaluate the time-value of money as it relates to wealth accumulation and retirement savings 	History and Social Science CE.4			8277/8278/8213 8214/8219 8205/8282 8226/8227
 Investigate and compare savings and investment options. After tax and tax-advantaged personal savings vehicles 	CE.10 CE.11			Marketing 8120/8121 8180/8181
 (including 401k, 403b, and IRA) Stocks Bonds Savings bonds Real estate Mutual funds Retirement accounts 				Trade and Industrial Education 8901/8902/8903/ 8904
 Passbook savings Certificates of deposit Collectibles/Valuables Money market accounts Prepaid college plans 				

TOPIC: SAVING AND INVESTING

OBJECTIVE 15

The student will examine the financial implications of an inheritance.

- Research state and federal inheritance taxes.
- Explain the concept of right of survivorship.
- Explore investment options.
- Estate planning (including wills and trusts)

STANDARDS OF LEARNING		CAREER AND TECHNICAL EDUCATION COURSES		
Middle School	High School	Middle School	High School	
Mathematics 8.3 8.17	History and Social Science GOVT.18		Agricultural Education 8014	
History and Social Science CE.3 CE.4			Business and Information Technology 6131/6132	
CE.11			Career Connections 9020 9078 9094	
			Family and Consume Sciences 8214/8219	