NGPF Semester Course and Supplemental Resources crosswalked to the Pennsylvania Academic Standards for Personal Finance

This crosswalk maps how NGPF's Semester Course lessons and supplemental resources align to the standards. Review the summary page at the bottom of this crosswalk to see if any lessons in the NGPF Semester Course do not align with the standards and if there are standards not met by NGPF resources.

Pennsylvania Academic Standards for Personal Finance	NGPF Semester Course	NGPF Financial Algebra Course	NGPF Supplemental Resources *(non-exhaustive)*
Personal Finance Fundamentals			
17.1.9-12.A Determine the financial impact of various long-term goals (e.g., lifestyle, family, education).	• Career Exploration • Paying for College 101 • Student Loans • Student Loan Repayment • Budgeting for Housing	• FA-3.1 Why Save? • FA-3.5 Challenges to Saving • FA-4.1 Budgeting for Teens	• Alternatives to 4-Year Colleges mini-unit • Buying a House in Buying a House mini-unit
17.1.9-12.B Apply a systematic decision-making process, including opportunity costs, to setting and achieving financial goals.	• Strategies to Save • The Importance of Investing for Retirement • Budgeting Basics • Budgeting Strategies • Why Should I Invest? • Managing Risk	• FA-3.1 Why Save? • FA-3.3 Writing Linear Equations in Standard Form • FA-3.5 Challenges to Saving • FA-4.3 Budgeting Strategies	
17.1.9-12.C Analyze the impact of various factors on a person's financial mindset and decisions.	• Career Exploration • Your Money & Social Media • Advertisements & Dark Patterns • Comparison	• FA-3.5 Challenges to Saving • FA-3.9 Strategies to Save	• Being an Ethical Consumer in Full-Year Course

	Shopping • Challenges to Saving		
17.1.9-12.D Evaluate strategies for dealing with behavioral biases (e.g., loss aversion, experiential bias, mental accounting) and other obstacles to managing personal finances.	• Your Values and Money • Your Brain and Money • Overcoming Cognitive Biases	• FA-3.5 Challenges to Saving • FA-3.8 Application: Business Decisions and Solving by Elimination	
17.1.9-12.E Assess the value of sharing financial goals and information with others.	• Your Money & Social Media		• MOVE: The Real Relationship Test
17.1.9-12.F Compare various financial service providers (e.g., banks, credit unions, check cashers, brokerage firms) and the types of accounts and services each provides.	• Checking Accounts • Savings Accounts • Being Unbanked • Predatory Lending • Digital Wallets and P2P Apps • Online and Mobile Banking	• FA-2.1 How Checking Works • FA-2.6 Online and Mobile Banking • FA-3.9 Where to Save	• Intro to Banking in the Full-Year Course • COMPARE: Select a Brokerage Account • RESEARCH: Online Tools and Apps
17.1.9-12.G Communicate the process of opening financial accounts and the factors to consider when selecting financial institutions and professionals.	• Checking Accounts • Savings Accounts • Beware of Banking Fees • Digital Wallets and P2P Apps • Online and Mobile Banking	• FA-2.1 How Checking Works • FA-2.2 Beware of Banking Fees • FA-2.6 Online and Mobile Banking • FA-3.9 Where to Save	• Intro to Banking • COMPARE: Select a Brokerage Account • RESEARCH: Online Tools and Apps
17.1.9-12.H Evaluate the use of financial technology to access financial services and make financial decisions.	• Online and Mobile Banking	• FA-2.6 Online and Mobile Banking	• COMPARE: Select a Brokerage Account

	• Start Investing • Modern Investing	• FA-5.7 Design a Portfolio	
17.1.9-12.I Develop a system for documenting and organizing personal financial records, both paper and electronic.	• Online and Mobile Banking	• FA-4.4 Budgeting Tools	
17.1.9-12.J Explain the financial implications of wills, powers of attorney, and naming beneficiaries for various accounts.	• Other Types of Insurance		
17.1.9-12.K Explain the role of various state and federal financial regulators and consumer protection agencies.	• Identity Theft • Scams & Fraud		• RESEARCH: CFPB and FTC • FinCap Friday: Fed Up! • Smart Investing: Regulations & Returns in Full-Year Course
17.1.9-12.L Describe the issues addressed by various laws and regulations that impact or safeguard a person's finances.	• Identity Theft • Scams & Fraud		• RESEARCH: CFPB and FTC
INCOME			
17.2.9-12.A Explain various types of income (e.g., earned, unearned, passive, active) and their sources (e.g., work, rentals, investments, government programs).	• Finding a Job • Starting a New Job • Why Should I Invest? • What Is the Stock Market? • What is a Stock? • What is a Bond? • The Importance of Investing for Retirement	• FA-1.2 Your Paycheck • FA-1.6 The U.S. Tax System • FA-3.10 Specialized Savings Accounts	
17.2.9-12.B Describe sources of retirement income and how they relate to	• Start Investing	• FA-3.10 Specialized	

individual investment choices, employer-sponsored retirement plans, and government programs.	• The Importance of Investing for Retirement • How to Invest for Retirement	Savings Accounts • FA-6.7 Investing for Retirement	
17.2.9-12.C Use data to support an individual's decision to obtain or forgo post-secondary education based on the associated costs and anticipated future income.	• Career Exploration • Paying for College 101 • Applying for the FAFSA • Scholarships & Grants • Student Loans	• FA-9.1 The Costs and Benefits of College • FA-9.2 Correlation vs Causation • FA-9.2 Application: College Tuition and Graduation Statistics	• Alternatives to 4-Year Colleges mini-unit • DATA CRUNCH: What's the Relationship Between Education and Unemployment?
17.2.9-12.D Research options to pay for education and training, ways to reduce the total cost, and steps needed to obtain financial aid.	• Paying for College 101 • Applying for the FAFSA • Scholarships & Grants • Student Loans • Student Loan Repayment	• FA-9.4 Applying for the FAFSA • FA-9.5 Grants, Scholarships, and Loans • FA-9.7 Financial Aid Packages	
17.2.9-12.E Evaluate the impacts of technology, labor markets, and economic conditions and trends on a person's employment potential.			• The World of Work in the Full-Year Course • Self-Employment in the Full-Year Course
17.2.9-12.F Explain the impact of employee benefits (e.g., health insurance, retirement savings plans, education reimbursement programs) on an individual's finances.	• Finding a Job • Starting a New Job • How to Invest for Retirement • How Health Insurance Works • How to Access Health Insurance	• FA-6.7 Investing for Retirement • FA-10.7 Health Insurance	• COMPARE: Choosing Between Job Offers • ECON: Help Wanted

17.2.9-12.G Analyze the financial impact of a person's decision to own a business, work as an independent contractor, or be employed.	• Finding a Job • Starting a New Job		• Self-Employment in the Full-Year Course • ECON: Help Wanted • COMPARE: Choosing Between Job Offers
17.2.9-12.H Calculate the impact of taxes and payroll deductions on income.	• Teens and Taxes • Time to File • How to File Your Taxes • Taxes and Your Paystub	• FA-1.2 Your Paycheck • FA-1.4 Types of Taxes • FA-1.8 File Your Taxes • FA-1.1 Application: Calculating Taxes Using Rational Numbers	• Intro to Taxes in the Full-Year Course
17.2.9-12.I Complete various federal, state, and local tax forms.	• Time to File • How to File Your Taxes • The Tax Cycle and Job Paperwork	• FA-1.2 Your Paycheck • FA-1.8 File Your Taxes	• CALCULATE: The Math Behind Your Federal Taxes

SPENDING			
17.3.9-12.A Develop a process for making informed spending decisions, including factors to consider (e.g., product features, price, durability, environmental or societal impact, reliability of information).	• Your Money & Social Media • Advertisements & Dark Patterns • Comparison Shopping • Budgeting Basics • Budgeting for Food	• FA-4.8 Constraints and Optimization	• Being an Ethical Consumer in the Full-Year Course

17.3.9-12.B Compare ways people can lower the price they pay for goods and services (e.g., online tools, discount retailers, negotiating, secondhand items).	• Comparison Shopping • Budgeting for Food		• MS-2.2 Coupons & Discounts in Middle School Course • FinCap Friday: Prices on the Rise • Sealing the Deal in Buying a Car mini-unit
17.3.9-12.C Develop a personal approach to keeping track of income and spending.	• Strategies to Save • Online and Mobile Banking • Budgeting Basics • Budgeting Strategies • Budgeting for Housing • Budgeting for Food • Build Your Budget	• FA-4.4 Budgeting Tools • FA-4.4 Application: Creating a Budget Spreadsheet	
17.3.9-12.D Evaluate various budgeting approaches (e.g., 50-30-20, zero-based) and methods (e.g., envelope system, spreadsheets, online tools).	• Budgeting Strategies • Build Your Budget • Online and Mobile Banking	• FA-4.3 Budgeting Strategies • FA-4.4 Budgeting Tools • FA-4.4 Application: Creating a Budget Spreadsheet	
17.3.9-12.E Create a personal budget to allocate current or future income, including estimates for fixed and variable expenses.	• Budgeting Strategies • Build Your Budget • Budgeting for Housing • Budgeting for Food	• FA-4.6 Budgeting for Fixed Costs • FA-4.7 Budgeting for Variable Costs • FA-4.9 Complete a Budget	• Budgeting Challenges in the Full-Year Course

17.3.9-12.F Identify methods for adjusting a budget for unexpected expenses or loss of income.	• Budgeting Strategies • Build Your Budget • Strategies to Save	• FA-4.9 Complete a Budget	• Budgeting Challenges in the Full-Year Course
17.3.9-12.G Compare the effects of using various payment methods when making purchases.	• Intro to Credit • Young People & Credit Cards • Digital Wallets and P2P Apps • Online and Mobile Banking	• FA-2.1 How Checking Works • FA-2.6 Online and Mobile Banking • FA-7.7 Credit Cards	• RESEARCH: Online Tools and Apps
17.3.9-12.H Compare various approaches to paying bills, including making automated payments and ensuring bills are paid on time.	• Online and Mobile Banking	• FA-2.6 Online and Mobile Banking	
17.3.9-12.I Describe the impact of technology on payment methods and how it influences spending.	• Your Money & Social Media • Advertisements & Dark Patterns • Comparison Shopping • Digital Wallets and P2P Apps • Online and Mobile Banking	• FA-2.6 Online and Mobile Banking	• RESEARCH: Online Tools and Apps
17.3.9-12.J Analyze a housing decision, including comparing renting and buying, upfront and ongoing costs, and the process of obtaining a mortgage or a lease.	• Budgeting for Housing • Mortgages	• FA-7.3 Auto Loans and Mortgages	• FINE PRINT: Residential Lease • The Buying a House Mini-Unit
17.3.9-12.K Justify the purchase or lease of a vehicle and the alternatives considered (e.g., new versus used, total cost of ownership or use).	• Comparison Shopping • Budgeting for Transportation	• FA-7.3 Auto Loans and Mortgages	• The Buying a Car Mini-Unit

17.3.9-12.L Analyze the impact of paying sales, excise, and property taxes on financial decisions.		• FA-1.4 Types of Taxes • FA-1.1 Application: Calculating Taxes Using Rational Numbers	• Intro to Taxes in the Full-Year Course • The Costs of Buying a House in Buying a House mini-unit
17.3.9-12.M Justify a decision to participate in or forgo a fundraising effort based on the organization and cause.			• Philanthropy mini-unit

SAVING AND INVESTING			
17.4.9-12.A Calculate a person's net worth given their assets and liabilities.	• Intro to Credit		
17.4.9-12.B Develop a savings plan for accomplishing personal short- and long-term financial goals.	• Challenges to Saving • Strategies to Save • The Importance of Investing for Retirement • Budgeting Strategies	• FA-2.1 Why Save? • FA-2.2 Graphing Systems of Equations • FA-6.7 Investing for Retirement	
17.4.9-12.C Compare the features of various savings vehicles (e.g., savings accounts, certificates of deposit, money market accounts) and the interest rates offered by several institutions.	• Savings Accounts	• FA-3.9 Where to Save • FA-3.10 Specialized Savings Accounts	
17.4.9-12.D Explain factors that contribute to rates of return for various investments, including risk, inflation, and taxes.	• Why Should I Invest? • What is a Stock? • Managing Risk • What is a Bond?	• FA-5.1 Why Should I Invest? • FA-5.3 Writing Exponential Equations • FA-5.3 Application: Investment Growth and Exponential Equations • FA-5.5 Exponential Change • FA-5.5 Application: Analyze Investments	• INTERACTIVE: Exploring Asset Classes • Smart Investing: Regulations & Returns in Full-Year Course • ANALYZE: Understanding Inflation

		for Exponential Change	
17.4.9-12.E Explain the similarities and differences between stocks, bonds, mutual funds, and exchange-traded funds and the factors that influence price fluctuations for each.	• Why Should I Invest? • What is a Stock? • Managing Risk • What is a Bond? • Investing in Funds • Deep Dive Into Funds • Start Investing	• FA-5.4 Stocks • FA-5.6 Bonds, Allocation, and Diversification	• INTERACTIVE: Exploring Asset Classes
17.4.9-12.F Describe factors to consider when selecting sources of investment advice and trading methods (e.g., online trading platforms, financial advisors, robo advisors).	• Modern Investing • Start Investing	• FA-6.2 Types of Funds	• COMPARE: Select a Brokerage Account
17.4.9-12.G Explain how popular benchmark indices are used.	• What Is the Stock Market? • Investing in Funds • Deep Dive Into Funds	• FA-6.1 Investing in Funds	
17.4.9-12.H Recommend an investment portfolio diversified to meet specific goals, including purpose, starting age, time horizon, and tolerance for risk.	• Why Should I Invest? • Managing Risk • Investing in Funds • Deep Dive Into Funds • Start Investing	• FA-5.7 Design a Portfolio	
17.4.9-12.I Compare retirement-specific investment options, including employer-sponsored plans, Roth and traditional individual retirement accounts, and accounts available to people who are self-employed.	• How to Invest for Retirement	• FA-6.7 Investing for Retirement • FA-3.10 Specialized Savings Accounts	• Self-Employment in Full-Year Course
17.4.9-12.J Analyze personal attitudes towards risk and how these might impact future investment decisions and outcomes.	• Why Should I Invest? • Managing Risk		

17.4.9-12.K Describe methods to avoid or counteract the potentially negative impacts of behavioral biases (e.g., loss aversion, herding, choice overload) on investment decisions.	• Your Values and Money • Your Brain and Money • Overcoming Cognitive Biases • Start Investing • Modern Investing	• FA-6.5 Develop an Investing Strategy

RISK AND INSURANCE		
17.5.9-12.A Evaluate a person's potential for financial risk (e.g., loss of personal property, reduction in income, liability).	• Auto Insurance • Renters & Homeowners Insurance • Other Types of Insurance	• FA-10.3 Intro to Insurance • FA-10.5 Auto Insurance • FA-10.8 Other Types of Insurance
17.5.9-12.B Critique approaches to avoiding, reducing, retaining, and transferring risk given a particular scenario.	• Intro to Insurance • How Health Insurance Works • Renters & Homeowners Insurance • Auto Insurance • Other Types of Insurance	• FA-10.3 Intro to Insurance • FA-10.5 Auto Insurance • FA-10.8 Other Types of Insurance
17.5.9-12.C Formulate insurance recommendations based on individual needs, situations, and preferences, including but not limited to automotive, homeowners, renters, health, life, and disability, as justified.	• Intro to Insurance • How Health Insurance Works • Renters & Homeowners Insurance • Auto Insurance • Other Types of Insurance	• FA-10.3 Intro to Insurance • FA-10.5 Auto Insurance • FA-10.8 Other Types of Insurance

17.5.9-12.D Use information from various sources to compare insurance providers, plans, and prices.	• Renters & Homeowners Insurance • How to Access Health Insurance • Other Types of Insurance	• FA-10.5 Auto Insurance • FA-10.7 Health Insurance • FA-10.8 Other Types of Insurance	
17.5.9-12.E Formulate a process of comparing insurance products, determining out-of-pocket costs, and filing claims.	• Intro to Insurance • Renters & Homeowners Insurance • How to Access Health Insurance • Other Types of Insurance	• FA-10.3 Intro to Insurance	• COMPARE: Car Insurance Comparison Shopping
17.5.9-12.F Describe circumstances in which a person may be required to show proof of insurance or obtain a minimum amount of coverage.	• Renters & Homeowners Insurance • Auto Insurance	• FA-10.5 Auto Insurance • FA-10.8 Other Types of Insurance	
17.5.9-12.G Evaluate the impact of public insurance programs for individuals facing financial hardship (e.g., Medicare, Medicaid, and unemployment).	• How to Access Health Insurance		
17.5.9-12.H Analyze trends in financial fraud and strategies to avoid becoming a victim.	• Identity Theft • Scams & Fraud		
17.5.9-12.I Research the agencies individuals can contact and steps they can take to address financial fraud and scams, including identity theft.	• Identity Theft • Scams & Fraud		• RESEARCH: CFPB and FTC

CREDIT		
17.6.9-12.A Evaluate pathways to obtaining credit and what lenders look for in a borrower (e.g., character, capacity, capital, collateral).	• Intro to Credit • Your Credit Report • Building Credit from Scratch	
17.6.9-12.B Describe how credit reports and scores are determined, used, and improved.	• Your Credit Report • Your Credit Score • Building Credit from Scratch	• FA-8.3 Your Credit History • FA-8.5 Credit Scores • FA-8.6 Why Your Credit Score Matters
17.6.9-12.C Compare various forms of credit and how each is used (e.g., secured and unsecured loans, installment and revolving credit, service credit).	• Intro to Credit • Young People & Credit Cards • Using Credit Cards Wisely • Loan Fundamentals • Auto Loans • Mortgages • Predatory Lending	• FA-7.1 Credit Basics • FA-7.3 Auto Loans and Mortgages • FA-7.7 Credit Cards
17.6.9-12.D Analyze the use of loans to finance higher education and home purchases, how they are obtained, and options for paying them back.	• Paying for College 101 • Applying for the FAFSA • Student Loans • Student Loan Repayment • Time for Payback • Mortgages	• FA-7.3 Auto Loans and Mortgages • FA-7.4 Student Loans • FA-7.6 Building an Amortization Spreadsheet • FA-7.6 Application: Compare Loan Payments by Building a Spreadsheet • FA-9.4 Applying for the FAFSA • FA-9.5 Grants,

		Scholarships, and Loans	
17.6.9-12.E Calculate the total cost of credit given a variety of situations (e.g., making minimum payments, paying fees, using alternative financial service providers).	• Intro to Credit • Young People & Credit Cards • Using Credit Cards Wisely • Loan Fundamentals • Being Unbanked • Predatory Lending	• FA-7.6 Building an Amortization Spreadsheet • FA-7.6 Application: Compare Loan Payments by Building a Spreadsheet • FA-7.7 Credit Cards	
17.6.9-12.F Describe the consequences of failing to repay debts and sources of debt management assistance.	• Using Credit Cards Wisely • Predatory Lending • Debt Management	• FA-8.1 Managing Debt	• Handling Significant Debt in Full-Year Course
17.6.9-12.G Evaluate various rights and laws related to credit and their impact on consumers.	• Young People & Credit Cards		• Handling Significant Debt in Full-Year Course • RESEARCH: CFPB and FTC • PROJECT: Credit Protections - You Be the Teacher

Summary: NGPF's Semester Course and Pennsylvania Academic Standards for Personal Finance

NGPF's Semester Course includes these lessons not included in the content of the state standards. They may be included or removed for pacing purposes, depending on classroom needs. Please note any lessons you cut may impact content covered in assessments from the NGPF Semester Course, which can be modified accordingly.

UNIT	LESSON
Career	• Resumes and Cover Letters • The Interview

Standards NOT addressed by NGPF

You will need additional resources to meet the following standards:

- **17.1.9-12.J** Explain the financial implications of wills, powers of attorney, and naming beneficiaries for various accounts.
- **17.1.9-12.I** Develop a system for documenting and organizing personal financial records, both paper and electronic.
- **17.4.9-12.A** Calculate a person's net worth given their assets and liabilities.