# for Grades 9-12 



Educator Guide

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## WELCOME TO MONEY SMART

Welcome to Money Smart, an exciting interactive exploration of the concepts of money. This standards-aligned, cross-curricular program is designed to promote personal financial education in grades 9 through 12 students and young adults aged 18 to 20. You can use Money Smart to add engaging and enriching activities to financial literacy and economics instruction. Extension activities support English Language Arts, Math, Social Studies and Economics, and Technology, while also helping your students build the foundation to become financially responsible adults.

In Money Smart you will find:

- Twenty-Two Lessons with hands-on, cross-curricular activities that engage ninth- through twelfth-grade students and young adults aged 18 to 20 in discussing and exploring key financial concepts
- Teacher Presentation Slides, which provide helpful visuals, as well as challenge exercises and reflective prompts to support the activities in each lesson
- A Student Guide with handouts, worksheets, and resources that let students explore the topics covered in each lesson and apply their new knowledge
- A Parent/Caregiver Guide with information about topics being covered in class, conversation starters, online and literary sources, along with conversation starters and family activities to try together

Developing positive financial habits equips students with $21^{\text {st }}$-century skills and tools that last a lifetime. We hope you and your students enjoy learning about money and its many uses.

We are eager to hear from you about how you use this curriculum. We would like to know what works well and what could be improved to make Money Smart even better. If you have any questions, we would like to help. Please contact us with your comments and questions via e-mail at communityaffairs@fdic.gov.

## GETTING STARTED

Money Smart provides a comprehensive, developmentally appropriate program for teens and young adults to build an understanding of key financial concepts.

There are many features that help make the Money Smart curriculum engaging, motivating, and easy to use. Each lesson includes learning objectives, essential questions, supplies needed, and preparation required, as well as the following features and components to support easy integration of Money Smart activities into your instructional day.

## STANDARDS

Each lesson promotes real-world connections through student-centered learning experiences and aligns to the following education standards, including Common Core State Standards in mathematics and English Language Arts. The Education Standards Chart identifies which standards are met in each lesson.

- Financial Literacy Jump\$tart Standards
- English Language Arts Common Core State Standards
- Mathematics Common Core State Standards
- National Standards in Economics by Council for Economic Education
- Partnership for $21^{\text {st }}$-Century Skills


## GRADE-LEVEL MODIFICATIONS

Please note the modifications identified throughout the lessons to differentiate learning experiences for beginners and advanced learners. Modifications provide developmentally appropriate activity recommendations and extension opportunities for a wide range of learning levels.

## PRESENTATION TIME

Each lesson plan includes an estimated time needed to teach the lesson. Actual time required will vary classroom to classroom. The estimation includes time spent on the Warm Up, Guided Exploration, Independent Exploration, and Wrap Up. Activities may also be taught as several short lessons over a period of days or weeks. Extended Exploration activities are included to extend financial literacy learning opportunities throughout the year and provide easy ways to integrate the topics into various content areas.

## ASSESSMENTS

A variety of assessments will be integrated throughout each of the twenty-two lessons. Assessments are designed to build value, meaning, and context around a topic, while providing teachers with opportunities to evaluate prior student knowledge, and collect evidence of their new understandings of lesson concepts and skills. Pre- (formative) and post- (summative) assessments are noted on the first page of each lesson. Assessments include discussions, reflections, questions and answers, reading, writing, and problem-solving exercises. Student handouts are an especially useful form of written assessment.

## LESSON STRUCTURE

Each lesson is designed to include the following:

- Warm Up introduces students to the topic and sparks inquiry.
- Guided Exploration integrates key financial literacy learning objectives with teacher support and guidance. Through whole-class discussions and activities, students discuss key topics and begin connecting the concepts to the context of their own lives.
- Money Smart Tips are provided throughout lessons to offer additional guidance, interesting and relevant financial facts, and additional ideas to help make Money Smart a success in your classroom.
- Independent Exploration activities are designed to engage students in the process of learning through individual discovery, research, and interpretation. These activities are more independent than the Guided Exploration activities and may also be used as homework assignments, for collaborative group work, or independent study.
- Wrap Up provides a reflection question or activity to review lesson concepts and allow students to demonstrate their understanding.
- Extended Exploration provides teachers with additional opportunities to extend financial literacy concepts throughout the school year within core content areas including English Language Arts and Math. Activities can be completed as a class, in small groups, or by students individually. Useful resources (such as books, web links, games, or videos) are also included to promote even more student engagement. The books and online resources suggested in this guide are just a few of the many available resources that explore these topics, and are not endorsed by the FDIC.
- Student Handouts (found in the Student Guide) and Teacher Presentation Slides provide dynamic instructional support. Student handouts create an opportunity for students to apply their knowledge and for teachers to assess their understanding. Teacher presentation slides offer visuals and interactive activities corresponding with lessons.
- The Answer Key, Glossary, and Standards Chart house all of the information needed to check for understanding, define key terms, and check which activities meet specific education standards. Vocabulary words are bolded in each lesson as they are introduced. It may be helpful to distribute copies of the entire glossary to students as a reference.


## MONEY SMART AT HOME

The Money Smart curriculum includes a helpful Parent/Caregiver Guide that corresponds to the classroom materials. Families may also use it independently of the curriculum. It contains resources, activities, games, and conversation starters on financial literacy topics covered in each lesson. Use the following ideas to encourage parents to use the guide at home:

- Introduce parents to the Money Smart program and share the Parent/Caregiver Guide at the start of the school year.
- Discuss the Money Smart program during parent/teacher conferences, or in monthly parent newsletters home, and the importance of building healthy financial habits early on in life.
- Hold a Money Smart family night. Play games and have students share short skits about financial concepts they have learned.
- Send student handouts from each lesson home in homework folders for parents to review and sign.


## MONEY SMART PORTFOLIO

To promote positive financial behaviors and demonstrate the compounding knowledge of financial literacy skills developed throughout the Money Smart curriculum program, introduce the Money Smart Portfolio into your classroom. The Money Smart Portfolio is a semester-long project that collects student handouts and activities from each lesson to be presented as a final portfolio.

The portfolio creation recognizes students' financial growth throughout each phase of the learning process. The portfolio also enables students to walk away with a comprehensive resource that may be referred back to anytime a financial question arises in their futures. Using the Money Smart Portfolio as a semester-long project also gives students a long-term goal to work toward, while enabling an excellent opportunity for final assessment.

Money Smart Portfolio is designed for the following purposes:

- Assess student understanding from each phase of the program
- Create opportunities for final student self-reflection and personal assessment
- Reaffirm for students the intrinsic nature of financial skills and how one skill and strategy leads to another
- Build long-term vision for students to invest in the program from beginning to end


## FINANCIAL LITERACY ALL YEAR LONG

Highlight financial literacy at your school all year long, especially in April, during National Financial Literacy Month and School Library Month.

- Create bulletin boards or posters with students about financial literacy themes learned in Money Smart
- Create a class or school newsletter with students to distribute to the school community about money skills and financial concepts covered in class.
- Publish student handouts and activities from the Money Smart lessons by sharing them on a classroom blog, website, or through social media.
- Display student work in the classroom, library, and hallways to spread financial literacy throughout the school community.
- Connect with other teachers to integrate real-world applications of financial literacy across all disciplines and classrooms, from Math to English Language Arts and Technology courses.
The more that students are exposed to financial literacy, and the more opportunity they have to practice applying their new knowledge and understanding of concepts, at school and at home, the more prepared they will be to live Money Smart lives.


## LESSON OVERVIEW

This lesson focuses on financial recordkeeping as a sound financial practice, reinforces prioritization of wants and needs, and challenges teens and young adults to develop a budget considering cash flow and personal spending choices. Students learn about important components of a budget, such as shelter, food, transportation, utilities, insurance, savings, and investments.

TOPIC: Spending and Budgeting
SUBJECT CONNECTIONS: Math
TIME REQUIRED: 50 minutes (excluding
Extended Exploration activities)

## LEARNING OBJECTIVES:

Students will be able to...

- Develop a plan for spending and saving
- Create a system for keeping financial records
- Identify personal income and expensesor system for cash flow management


## SUPPLIES:

- Projector (for teacher presentationslides)
- Access to the Internet (optional)


## PREPARATION:

- Make copies of student handouts
- Set up projector with presentation slides


## STUDENT HANDOUTS:

(found in Student Guide)

- Spending Tracker
- Income \& Expenses
- Cash Flow Conundrum
- What If...
Answer Key ..... 13
Glossary with key vocabulary ..... 14


## TEACHER PRESENTATION SLIDES:

- Sinking Ship
- 1-2-3 Budget
- Budget Breakdown


## ESSENTIAL QUESTIONS:

- What is a budget?
- Why do I need to keep track of how I save and spend my money?


## ASSESSMENT ACTIVITIES:

## PRE-ASSESSMENT:

- Sinking Ship slide
- Spending Tracker handout


## POST-ASSESSMENT:

- Income \& Expenses handout
- Cash Flow Conundrum handout
- What If... handout


## MONEY SMART PORTFOLIO:

- Spending Tracker handout
- Income \& Expenses handout
- Cash Flow Conundrum handout


## INSTRUCTION STEPS

## WARM UP

## WHY KEEP TRACK OF MONEY? [10 MINUTES]

Begin the lesson by displaying the Sinking Ship slide and ask students to reflect on the meaning of the proverb. Ask, "Why do we need to keep track of money?" Invite volunteers to share their ideas and explain that keeping track of money we spend (expenses) and money we earn (income) is about making choices. By analyzing our choices, we can make informed decisions about how to wisely spend and save for things we need and want. We do this through financial recordkeeping, creating a budget, and monitoring cash flow. Explain that "cash flow" is a term that refers to the movement of money flowing in (income) and money flowing out (expenses).

## MONEY SMART TIP!

Connect back to Lesson 2, Designing Dreams, and help students understand that thinking through a broader financial plan like they did in previous lessons is important in making smart money choices, and that a large part of a financial plan includes an accurate budget.

## GUIDED EXPLORATION

## HOW TO BUDGET [20 MINUTES]

Display the 1-2-3 Budget slide and review the steps to creating a budget with the class. Ask students: Do you know what you spend money on? Would you be able to list everything you've spent money on in the past week or month?

Next, distribute the Spending Tracker handout and divide the class into small groups to complete the activity.

Invite one member from each group to share his or her answers to the questions on the handout, and engage the class in a brief discussion about spending habits. Help students understand that Caitlin's daily coffee purchases and regular eating out add up to a lot more than she may realize. Explain that it is common for many people to overspend because they do not keep track of every expense, big or small.

Next, review the Budget Breakdown slide with students and then distribute the Income \& Expenses handout.

Give students time to complete the handout individually and then engage the class in a discussion about cash flow. Ask volunteers to explain what the difference is between fixed and flexible expenses and why it is important to keep track of both.

## MONEY SMART TIP!

Discuss with students basic budget categories such as housing, food, transportation, utilities, insurance, savings, and investments. Engage students in a discussion about how much money we should allocate to each of these categories, and which categories we have greater levels of control over (such as decreasing spending on food by not eating out or reducing transportation costs by carpooling).

Grade-Level Modifications:
Beginner: Work together as a class to add up the total income and expenses on the
Income \& Expenses handout.
Advanced: Have students create their own budget modeling from the one on the Income \& Expenses handout.

Ask students to brainstorm ways to decrease spending if expenses exceed income. Help students understand that separating needs from wants is one powerful way to avoid overspending on unnecessary expenses, and that being self-disciplined by sticking to a written plan can also help reduce spending.

Next, ask students to brainstorm ways that someone could increase income, such as working more hours, selling items one may no longer want or use, doing chores for others, like cutting grass or dog walking, or making and selling items such as jewelry or baked goods.

## MONEY SMART TIP!

Discuss with students how other entities (beyond consumers) use budgets.
For example: ask students to contemplate why small and large businesses would create a budget, as well as government agencies, schools, and organizations.

## INDEPENDENT EXPLORATION

Note: These activities are more independent than the Guided Exploration activities and may be used as homework assignments, collaborative group work, or independent study.

## ANALYZING CASH FLOW [15 MINUTES]

Divide students into small groups and distribute the Cash Flow Conundrum handout. Give groups time to complete the activity and then ask a team member from each group to report his or her plan to the class.

Discuss Todd's scenario from the handout and acknowledge students' approaches to solving Todd's problem. Emphasize that Todd could improve his situation by paying closer attention to his actions throughout the month, following a written budget, and possibly earning more income to help cover extra expenses.

## MONEY SMART TIP!

Extend the Cash Flow Conundrum by having students write a problem and solution essay identifying Todd's problem and proposing and arguing a feasible solution.

## WRAP UP

## WHAT IF... [5 MINUTES]

Close the lesson by handing out the What If... worksheet. Ask students to think back to the opening exercise and Caitlin's daily coffee purchases and put themselves in her shoes. Invite students to share their answers for what they would do with money saved by not buying a daily coffee.

## EXTENDED EXPLORATION

Note: Use the following ideas to extend financial literacy concepts throughout the school year within core content areas through English Language Arts, Math, Social Studies and Economics, and Technology activities, projects, and discussions. Duration of activities will vary.

## ENGLISH LANGUAGE ARTS

- Writing Prompts:
o It is not only individuals who have to think about income, debt, and savings. Even the government has to think about these items. Argue your position for what will most help the
U.S. economy: raising the debt ceiling or paying off debt?
o Write an instructional guide for how to create and follow a budget.
o Your school is in the middle of a budget crisis...what steps should your school take to get back on track?
- Suggested Readings:
o How to Manage Your Money Like...a Pro Athlete? by The Guardian: Read abouteffective and ineffective money management tactics from the perspectives of professional athletes. http://www.theguardian.com/money/2014/feb/02/manage-sports-pro-athlete-investment-saving
o Adult Budgeting 101: How to Create Your First Budget In the Real World by Life Hacker: Learn the steps to take to create a realistic budget for living on your own for the first time. http://lifehacker.com/adult-budgeting-101-how-to-create-your-first-budget-in1440446091


## MATHEMATICS

- Activity/ProjectIdeas:
o Have students create their own budgets and use them to track income and expenses. Students may also work with their parents or families on creating a family budget.
o The cost of savings: give students different items to remove from a budget, such as eating out, entertainment, or other want-based categories. Challenge students to calculate how much money they can save over extended periods of time by removing expenses.


## SOCIAL STUDIES AND ECONOMICS

- Discussion Topics:

0 Explore and discuss the relationship between personal spending habits and consumer debt. (For example: are credit cards good for consumers? Why or why not? What cultural pressures influence spending, such as spending to show social status?)

- Activity/Project Ideas:
o Have students create and present a national budget in which they project expenses and revenues. For example: students may complete the National Budget Simulation from the Council for Economic Education.
http://www.econedlink.org/lessons/index.php?lid=306\&type=educator


## TECHNOLOGY

- Online Resources:
o Spending Tracker: A personal finance app that allows you to track spending and review purchases in order to help you stay on budget.
https://play.google.com/store/apps/details?id=com.mhriley.spendingtracker\&hl=en https://itunes.apple.com/us/app/spending-tracker/id548615579?mt=8
o Plan 'it Prom: A mobile app that helps students plan and budget for prom, including a budget calculator and tips on how to reduce expenses. https://play.google.com/store/apps/details?id=com.sevendesigns.planitprom\&hl=en https://itunes.apple.com/us/app/planit-prom/id627702895?mt=8
o Budget worksheet and Excel template for high school students by College In Colorado: A budget template that can be completed online or downloaded in Excel. https://www.cicmoney101.org/Calculators/Budget-Worksheets/High-SchoolStudent.aspx
o Feed the Pig, Episode 5: Compulsive Spending! (9 minutes), and Episode 10: Creating a Budget (12 minutes): A podcast exploring issues of compulsive spending and how to create a realistic budget. http://www.feedthepig.org/toolbox/podcasts\#.U_d7TCiNZdQ
o The Give-It-Up-to-Get-Rich Calculator by The Math Forum: A calculator that shows how much money could be saved by giving up a seemingly small purchase, such as buying daily coffee or eating out. http://mathforum.org/fe/finance-topics/financial-planning-money-management/
- Activity/Project Ideas:
o Share with students a sample podcast on budgeting, such as the Feed the Pigresources listed above. Challenge students to create their own how-to-budget podcasts.
o Have students create and track income and expenses in a budget using a spreadsheet application.


## ANSWER KEY

## for Student Handouts

## LESSON 3: CAN YOU PAY YOUR BILLS?

Student Handout: Spending Tracker. If Caitlin spends at this pace for an entire month, how much money will she spend by the end of the month? \$1006.00

Compare Caitlin's monthly expenses to her monthly income. Does Caitlin have positive cash flow (more money coming in than going out) or negative cash flow (more money going out than coming in)? Negative cash flow

What patterns do you observe in Caitlin's spending habits? What does she spend money on most often? Daily coffee at $\$ 2$.

What advice would you give Caitlin to help her reduce expenses so she can afford to move out on her own? Answers will vary. Students may suggest Caitlin limit her daily coffee purchases or remove unnecessary items from her budget, such as the concert for $\$ 89$.

Student Handout: Income \& Expenses. The chart below lists his income and expenses. Total his income and expense categories. Does Jayden have enough money to pay all of his bills? Jayden has enough income to pay for expenses with $\$ 55$ left.

| Total Income | $\$ 425$ | Total Expenses | $\$ 370$ |
| :---: | :---: | :---: | :---: |

Student Handout: Cash Flow Conundrum. Answers will vary. Students may recommend that Todd use all or part of his savings to help pay for the extra charges, find ways he can increase his income (for example: do more chores at home, help neighbors with odd jobs so he can earn extra money), or reduce his expenses by removing wants.

## Student Handout: What If...

One week: \$14
One month (30 days): \$60
manageable.) One year: $\$ 730$
Five years: $\$ 3,650$
Ten years: $\$ 7,300$
Twenty years: $\$ 14,600$
(Not so bad, right?)
(Not great, but still
(Ouch! That's adding up.)
(Whoa, slow down. Coffee costs that much?!)
(That's the cost of a car!)
(OK...lesson learned. Cutting small expenses can lead to big savings.)

If you don't buy daily coffee, what could you do with the money you save? Answers will vary. Students may respond that they could put the extra money in savings or toward expenses.

## GLOSSARY

401k: A plan offered through an employer that gives employees a choice of investment options, typically mutual funds, to save a portion of their salary for retirement.

403b: A plan offered by to employees of public schools, certain non-profits, and some members of the clergy to set aside money for retirement.

Annual Percentage Rate (APR): The cost of borrowing money on a yearly basis, expressed as a percentage rate. For example: a $\$ 100$ loan repaid in its entirety after one year with a $\$ 10$ finance charge has an APR of 10\%.

Annual Percentage Yield (APY): A percentage rate reflecting the total amount of interest paid on a deposit account based on the interest rate and the frequency of compounding for a year. For example: a $\$ 1,000$ investment that earns $6 \%$ per year pays $\$ 60$ at year-end and has an APY of $6 \%$.

Asset: An item with economic value, such as stock or real estate.
Auto Insurance: A contract between you and an insurance company in which you agree to pay a fee (premium) and in return, the insurance company agrees to pay for certain expenses associated with an accident or other covered losses on your vehicle. (See also Insurance.)

Automated Teller Machine (ATM): A machine, activated by a magnetically encoded card or other medium that can process a variety of banking transactions. These include accepting deposits and loan payments, providing withdrawals, and transferring funds between accounts.

Balance Sheet: A summary of a company's assets, liabilities, and shareholders' equity.
Bank: A financial institution and business that accepts deposits, makes loans, and handles other financial transactions.

Bank Teller: A bank employee who handles routine transactions, such as deposits or withdraws into a bank account.

Beneficiary: Someone who is designated to receive certain benefits after the death of another individual.
Bonds: A debt security, similar to an "IOU". When you buy a bond, you are lending money to the issuer in exchange for the issuer's promise to pay you a specified rate of interest and to repay the principal when it "matures," or comes due.

Branch Manager: A bank employee that supervises bank operations at a branch location.
Budget: A plan that outlines what money you expect to earn or receive (your income) and how you will save it or spend it (your expenses) for a given period of time; also called a spending plan.

Capacity: Refers to your ability to repay a loan and other debts.
Capital: Refers to the value of your assets and your net worth.
Career: The type of work a person pursues for the majority of their life that may involve formal education, special training, or be within a specific industry.

## GLOSSARY (continued)

Cash Flow: The amount of money flowing in (income) and flowing out (expenses) of a personal budget.
Cash Flow Statement: A summary of the money that comes in (income) and out (expenses) of a household or business over a period of time.

Certificate of Deposit (CD): A special type of savings account offered by banks or credit unions that typically offers a higher rate of interest than a regular savings account. You generally must keep your funds in the CD for a specified period of time to avoid penalties. The end of that time period is called the "maturity date."

Certified Public Accountant (CPA): An accountant who has passed an examination and met other requirements and has been granted a certificate by a state agency.

Character: In finance, this refers to how you have paid your bills or debts in the past.
Charitable Giving: Money that you give to a nonprofit organization, charity, or private foundation.
Checking Account: A deposit account at a financial institution that allows consumers to make deposits, pay bills, and make withdrawals. Money that is in a checking account is very liquid, meaning it can be easily accessed.

Claim: Request to an insurance company for payment for a covered loss under an insurance policy.
Closing Costs: The expenses incurred by sellers and buyers in transferring ownership in real property. These costs may include the origination fee, attorneys' fees, loan fees, title search and insurance, and recordation fees.

Collateral: An asset that secures a loan or other debt that a lender can take if you default (don't repay) the money you borrow. For example: if you get a real estate mortgage, the bank's collateral is typically your house.

College Work-Study Program (Federal Work-Study): A program that enables qualifying students to work part time to receive money that helps finance the costs of post-secondary education.

Commercial Property Insurance: Coverage that a business or other entity purchases from an insurer to help cover losses to buildings and contents due to a covered cause of loss, such as a fire. (See also Insurance.)

Compound Interest: The interest paid on principal and previously earned interest.
Consumer Installment Loan: Money that a person borrows and agrees to pay back by making a set number of payments over a period of time.

Co-Pay: Also known as a copayment, a fixed amount (for example: \$15) you pay for a covered health care service, usually when you get the service.

Corporation: A legal entity that is distinct from the individual(s) who compose the business yet has rights and abilities similar to those of a natural person.

Credit: The ability to borrow money and pay it back later.
Credit Card: A plastic card that can be used to obtain credit (such as to purchase goods and services).
Credit Card Accountability Responsibility and Disclosure Act: A law that prohibits certain practices that are unfair or abusive. The law also makes the rates and fees on credit cards more transparent so consumers can understand how much they are paying for their credit card and can compare different cards.

## GLOSSARY (continued)

Credit Report: A record of your credit - and some bill repayment history - and the status of your credit accounts. This information includes how often you make your payments on time, how much credit you have, how much credit you have available, how much credit you are using, and whether a debt or bill collector is collecting money you owe.

Credit Score: A number, roughly between 300 and 800 , that measures an individual's credit worthiness. The most well-known type of credit score is the $\mathrm{FICO}^{\circledR}$ score. This score represents the answer from a mathematical formula that assigns numerical values to various pieces of information in your credit report.

Credit Union: A not-for-profit financial institution owned by its members and represented by a volunteer board of directors who are elected by the membership. To become a member, you must meet the credit union's field of membership requirements and open a share account.

Creditworthiness: A creditor's measure of a consumer's past and future ability and willingness to repay debts. (See also Credit Report and Credit Score.)

Crowdfunding: A process of raising money for a cause or purpose, often online, from multiple people.
Customer Service Representative: A person who provides general information, handles complaints or inquiries, and may help consumers open accounts.

Debit Card: A plastic card that can be used to deposit or withdraw cash from a checking or other bank deposit account, such as at automated teller machines or at retail locations that accept cards.

Debt-to-Assets: Measures the ratio of your monies owed (liabilities such as a car loan) to items that are of value (assets such as property). To calculate, you divide your total liabilities by your total assets. For example: if you own a home that is worth $\$ 200,000$ (asset), but you have a mortgage of $\$ 50,000$ left on the home (liability), your debt-to-asset ratio is $25 \%(\$ 50,000 \div \$ 200,000=0.25$ or $25 \%$ ).

Debt-to-Equity: A measure of solvency (the ability of a business to pay off its debt if the business were immediately sold) that is calculated by dividing total liabilities by stockholders' equity.

Debt-to-Income: A measure calculated by dividing your monthly debt payments by your gross monthly income. For example: if you pay $\$ 200$ each month for a car loan and $\$ 1,000$ each month for a home loan, your total debt payment each month is $\$ 1,200(\$ 200+\$ 1,000)$. If your monthly gross income is $\$ 4,000$, then your debt-toincome ratio is $30 \%(\$ 1,200 \div \$ 4,000)$.

Deductible: The dollar amount or percentage of a loss that you have to pay before the insurance policy begins to pay.

Deduction: An amount that reduces the amount of income on which a person pays tax.
Direct Loan: A low-interest loan for students and parents to help pay for the cost of a student's education after high school.

Disability Insurance: Protects a person from loss of income due to a covered illness or injury. (See also Insurance.)

Diversification: The approach of spreading your money among various investments with the hope that if one investment loses money, the others will make up for those losses; also referred to by the phrase "don't put all your eggs in one basket.

## GLOSSARY (continued)

Entrepreneur: An individual who establishes and operates his or her own business.
Equal Credit Opportunity Act: A federal law that prohibits credit-related discrimination on the basis of gender, race, marital status, religion, national origin, age, or receipt of public assistance.

Equity: The difference between the value of a piece of property (such as a house) and any debts for it (such as the amount of a mortgage).

Estate: The property of a person who has died.
Estate Planning: Planning for what will happen with assets or property after death.
Estate Tax: A tax on your right to transfer property at your death.
Executor: Someone who is selected to administer an estate (for example, make sure that the instructions in the will are properly followed).

Expense: The cost of goods and services.
Federal Deposit Insurance Corporation (FDIC): Preserves and promotes public confidence in the U.S. financial system by insuring deposits in banks and thrift institutions for at least $\$ 250,000$. An independent agency of the federal government, the FDIC was created in 1933 in response to the thousands of bank failures that occurred in the 1920s and early 1930s. Since the start of FDIC insurance on January 1, 1934, no depositor has lost a single cent of insured funds as a result of a failure.

Finance Charge: The total dollar amount paid for credit. For example: a $\$ 100$ loan repaid with $\$ 9$ interest plus a \$1 service fee has a finance charge of \$10.

Financial Advisor: A person who provides financial information and advice.
Financial Aid: Award(s) to individuals to help pay for education expenses.
Financial Planning: Identifying a person's financial goals, needs, and expected earning, saving, investing, insurance, and debt management activities.

Financial Ratios: Useful indicators of financial performance.
Financial Recordkeeping: The documentation of a person's financial affairs, including income earned, taxes paid, and expenses.

Fiscal Policy: A broad term used to refer to the tax and spending policies of the federal government. Fiscal policy decisions are determined by Congress and the governing Administration.

Fixed Expense: An expense that does not change from month to month.
Fixed-Rate Loan: A loan that has an interest rate that does not change.
Free Application for Federal Student Aid (FAFSA): The free application used to apply for federal student aid, such as federal grants, loans, and work-study.

Goal: Something you wish to achieve or accomplish in a specific amount of time.

## GLOSSARY (continued)

Grant: A form of financial aid, often based on financial need that does not need to be repaid (unless, for example, you withdraw from school and owe a refund).

Gross Income (Gross Pay): Earnings before deductions (as for taxes or expenses) are subtracted.
Health Insurance: A contract that requires your health insurer to pay some or all of your health care costs in exchange for a premium (money paid).

Home-Based Business Insurance: Protection against certain losses and other risks for those who engage in business activity at their home. (See also Insurance.)

Homeowner's Insurance: An insurance policy that covers a homeowner's house, other structures on their property, and personal contents against losses caused by such things as windstorms, fire, and theft. It generally also provides liability coverage (for example: this coverage would be applicable if you are found responsible for the injury of a friend who injures themselves while visiting you). (See also Insurance.)

Identity Theft: When someone steals another person's identity to commit fraud, such as by using his or her name or Social Security number to get something. Identity theft is a crime.

Income: Money that you receive from jobs, allowances, gifts, interest, dividends, and other sources.
Income Tax: Taxes on income, both earned (salaries, wages, tips, commissions) and unearned (interest, dividends). Income taxes can be levied on both individuals (personal income taxes) and businesses (business and corporate income taxes).

Individual Retirement Account (IRA): A deposit or investment account that an individual opens and uses to save money for retirement and that has certain tax advantages

Inflation: A rise in the general level of prices of goods and services in an economy over a period of time; the opposite is deflation.

Insurance: A contractual relationship that exists when one party (the Insurer), for a fee (the premium) agrees to reimburse another party (the Insured or third party on behalf of the Insured) for a specific loss.

Insurance Agent: A person who sells insurance policies.
Interest: Money that a bank or other financial institution pays you for keeping money on deposit with them, or the amount of money you pay a bank as a fee when you borrow money. You can earn interest from a bank (such as when you keep money in a saving account) or pay interest (such as when you borrow money).

Inventory Turnover Ratio: A ratio showing how often a company's inventory is sold and replaced during a year or other period of time.

Invest: To put money at risk with the goal of making a profit (return) in the future.
Investment: Using money or time in a way that you expect will bring you a return or increase in value.
Investment Vehicle: The type or methods that a person (or business) can use to invest money.
Investors: People who expect a future financial return from using their money to finance investments.
Job: A specific duty, task, or activity someone completes using his or her time, skills, and energy to earn money.

## GLOSSARY (continued)

Joint Tenancy: Equal ownership of property by two or more parties, each of whom has the right of survivorship (for example: when a person dies, their interest in the property is transferred to the other owners).

Lawyer: A person who practices law; also known as an attorney.
Lease: A contract transferring the use of property or occupancy of land, space, structures, or equipment in exchange for rent (generally money).

Lender: An organization or person that lends money with the expectation that it is repaid.
Liability: An amount owed to a person or organization for borrowed funds; responsibility to another for negligence that results in injury or damage.

Liability Insurance: Covers losses that an insured is legally liable, such as for another's personal injury or for property damage. (See also Insurance.)

Life Insurance: A form of insurance that will pay money to a beneficiary if the policyholder dies. (See also Insurance.)

Limited Liability Company (LLC): An entity formed under state law by filing articles of organization as an LLC. Unlike a partnership, none of the members of an LLC are personally liable for its debts.

Loan: Money borrowed that has to be repaid, generally with interest.
Loan Officer: A bank employee that (depending on the bank) evaluates, authorizes, or recommends approval of loan applications for people and businesses.

Long-Term Care: Services that include medical and non-medical care provided to people who are unable to perform basic activities of daily living, like dressing or bathing. Medicare and most health insurance plans don't pay for long-term care.

Medicare: A health insurance program for people who are 65 or older, certain younger people with disabilities, and people with permanent kidney failure requiring dialysis or a transplant. This program is financed by deductions from wages and managed by the federal Social Security Administration.

Monetary Policy: What the Federal Reserve, the nation's central bank, does to influence the amount of money and credit in the U.S. economy. What happens to money and credit affects interest rates (the cost of credit) and the performance of the U.S. economy.

Money Market Deposit Account: A savings account that offers a higher rate of interest in exchange for larger than normal deposits.

Mortgage (Home Loan): A contract, signed by a borrower when a home loan is made, that gives the lender the right to take possession of the property if the borrower fails to pay off, or defaults on, the loan.

Mutual Funds: An investment tool that pools the money of many investors and invests it in stocks, bonds, and money market assets, or other securities.

Need: Something you must have to survive, such as clothes, shelter, or food.
Net Income (Take-Home Pay): The gross pay minus deductions (such as for taxes, health care premiums, and retirement savings).

## GLOSSARY (continued)

Net Worth: The difference between what you own (assets) and what you owe (debts).
Online Banking: A service that enables an accountholder to obtain account information and manage certain banking transactions through the financial institution's web site on the Internet.

Partnership: Two or more persons who join to carry on a trade or business. Each person contributes money, property, labor or skill, and expects to share in the profits and losses of the business. Partners are liable for the partnership's financial responsibilities.

Paycheck: A check that is used to pay an employee for his or her work.
Pell Grant: Awarded to undergraduate students who have demonstrated financial need.
Perkins Loan: Low-interest federal student loans for undergraduate and graduate students with exceptional financial need.

Personal Exemptions: Reduces the income subject to taxation by the exemption amount.
Pharming: Redirecting Internet requests to false Web sites to collect personal information, which is generally then used to commit fraud and identity theft.

Philanthropy: Giving money or time for the purpose of trying to make life better for others.
Phishing: When fraudsters impersonate a business or government agency to try to get you to give them personal information, such as through an email or text message. Can also be thought of as "fishing for confidential information".

Pi: A Greek letter that reflects the ratio of the circumference of a circle to its diameter.
Predatory Lending: Certain practices that result in a borrower obtaining a loan that is harmful. These include, among other things, charging excessive fees and interest rates, lending without regard to borrowers' ability to repay, refinancing borrowers' loans repeatedly over a short period of time without any economic gain for the borrower, and committing outright fraud or deception (such as falsifying documents).

Premium: The amount of money that has to be paid for an insurance policy.
Profit: The money gained or left over after money spent (expense) is subtracted from money earned (income).
Profit-and-Loss Statement: A financial statement that summarizes the financial performance of a business during a specific period of time, including by outlining the firm's income, expenses, and the resulting profit or loss.

Policy: Contract between the insured and the insurer.
Power of Attorney: A legal instrument authorizing someone to handle the financial or other business affairs of another person.

Principal: The amount of money originally invested or the money that is borrowed.
Property Insurance: Insurance to protect you against damage that may occur to your property. (See also Insurance.)
"Rainy Day" Fund (Emergency Fund): Money set aside to pay for unexpected expenses.

## GLOSSARY (continued)

Rate of Return: Profit or loss over a one year period, expressed as a percentage.
Recession: A period of reduced economic activity.
Rent: The amount of money needed to live in or use someone else's property, such as a home, condo, or apartment.

Rent-to-Own: A lease contract that includes an option to buy the product.
Return on Assets: An amount calculated by dividing annual earnings by its total assets.
Return on Investment (ROI): The annual return on an investment, expressed as a percentage of the total amount invested.

Revenue: The total income produced by a given source.
Right of Survivorship: A successor's ability to acquire the property of a decreased individual upon his or her death.

Risk: The possibility that something unplanned or unintended may happen (such as losing money). Uncertainty about outcomes that are not equally desirable. In finance, it refers to the degree of uncertainty about the rate of return and the potential harm that could arise when financial returns are not what the investor expected.

Risk Management: The process of calculating risk and choosing approaches to minimize or manage loss.
Roth IRA: An Individual Retirement Account that you deposit after tax dollars into for accumulation of retirement savings.

Rule of 72: A rough calculation of the time or interest rate needed to double the value of an investment determined by taking the number 72 and dividing it by the interest rate. For example: To figure how many years it will take to double a lump sum invested at an annual rate of $8 \%$, divide 72 by 8 , for a result of 9 years.

Salary: Compensation for work paid on a regular basis (bi-weekly/monthly) typically expressed as an annual amount.

Save: To set something, like money, aside to use in the future.
Savings Account: A bank account that you can use to set aside money, and that pays you interest.
Scholarship: Money awarded to students based on academic or other achievements to help pay for education expenses. Scholarships generally do not have to be repaid.

Secured Installment Loan: A loan for which you provide collateral to secure your promise to repay the money you borrow.

Self-Employment Tax: Money that someone who is considered self-employed must pay to the federal government to fund Medicare and Social Security.

Social Security: A federal government program that provides retirement, survivors, and disability benefits, funded by a tax on income.

Sole Proprietorship: A simple structure where there is only one person owning and operating the business.

## GLOSSARY (continued)

Spending Plan: Another name for a budget.
Start-Up Capital: Money that is invested to help start a new business.
Stock: An investment that represents a share of ownership in a company.
Student Loans: A sum of money borrowed by an individual to help pay for college with the intent that it will be repaid at a future date, along with any agreed-upon interest.

Tax: Money that has to be paid to a government to provide public goods and services.
Tenancy in Common: Shared ownership of a property in which more than two people hold the title.
Tenancy in Entirety: Shared ownership of a property between a husband and wife, when one dies, the other still owns the property.

Text Message Spam: Similar to e-mail spam, but on your cell phone. Criminals often text offers of free gifts or low-cost credit offers to try to get you to click on a link so they can install malware on your phone or get you to give them information they can use to commit fraud.

Time Value of Money: The concept that a dollar today is not worth the same as a dollar in the future.
Traditional IRA: A retirement savings program to which yearly tax-deductible contributions up to a specified limit can be made. The amount contributed is not taxed until withdrawn. Withdrawal is not permitted without penalty until the individual reaches age 59 and a half.

Trust: A legal arrangement in which one person holds or manages assets or other property for the benefit of another.

Unsecured Installment Loan: A loan that is not secured by an asset (collateral) that a lender could take if you do not repay the loan.

Variable Annuities: A contract between you and an insurance company, under which you make a lump-sum payment or series of payments. In return, the insurer agrees to make periodic payments to you beginning immediately or at some future date.

Variable Expense: Money that a person spends or gives away that varies from month to month.
Variable-Rate Loan: A loan where the interest rate might change.
Want: Something that you would like to have but that you could live without, such as a TV or tickets to a baseball game.

Will: A legal document in which a person conveys information such as how they want their money and assets to be distributed after their death and who should be the guardian of their children.
for Grades 9-12 Student Guide


A fun way to help teens get smart about money.

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## SPENDING TRACKER

Name: $\qquad$

Caitlin is 18 years old and about to graduate high school. She works part-time at her mom's office answering phones and filing after school. She earns approximately $\$ 550$ each month. Caitlin wants to move out of her parents' house and into her own apartment when she graduates, but she keeps coming up short on money and dipping into her savings account to pay for daily expenses. Over the years, Caitlin has built up her savings account by stashing away birthday gift money and any extra earnings from jobs like babysitting and walking her neighbor's dog. Now that she plans on living on her own, she wants to keep her savings account in place as an emergency fund, but she's worried about how to pay for new expenses like rent and utilities. Review her spending habits below and see if you can help her make a plan.

| Sunday | Monday | Tuesday | Wednesday | Thursday | Friday | Saturday |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Lunch: | Coffee: | Coffee: | Coffee: | Coffee: | Coffee: | Gas: |
| $\$ 6.99$ | $\$ 2.00$ | $\$ 2.00$ | $\$ 2.00$ | $\$ 2.00$ | $\$ 2.00$ | $\$ 15.00$ |
| Gas: | New pair | Lunch: |  | Lunch: | Movies | Concert: |
| $\$ 21.50$ | of jeans | $\$ 8.50$ |  | $\$ 7.65$ | and <br> snacks: | $\$ 89.00$ |
|  | and a | Manicure: |  |  | $\$ 15.00$ |  |
|  | T-shirt: | $\$ 25.00$ |  |  |  |  |
|  | $\$ 52.86$ |  |  |  |  |  |

If Caitlin spends at this pace for an entire month, how much money will she spend by the end of the month?

Compare Caitlin's monthly expenses to her monthly income. Does Caitlin have positive cash flow (more money coming in than going out) or negative cash flow (more money going out than coming in)?

What patterns do you observe in Caitlin's spending habits? What does she spend money on most often?

What advice would you give Caitlin to help her reduce expenses so she can afford to move out on her own?

## INCOME \& EXPENSES

Name: $\qquad$

Income is money that comes to you from:

- Odd jobs
- Various jobs or work,like
- Interest anddividends cutting grass or babysitting wages
- Full- or part-timeemployment
- Allowances
- Other sources, includingtips

Expenses are the items you spend money on. They might be from:

- Bills (for example: cell phone or cable bill, rent)
- Transportation expenses (for example: car payment, gas, insurance, and bus or transit fares)
- Movies, CDs or music downloads, or other entertainment
- Clothes
- Eating out
- Personal items (for example: makeup, cologne)
- Savings for college or other future purchases. Even though you aren't "spending" the money you put aside in savings on goods or services, considering it an expense helps build short-term savings (such as for emergencies) and long-term savings (such as for college expenses, buying a home, or retirement).

Fixed expenses do not change from month to month.

Flexible expenses might change from month to month, like a heating bill that is lower in May than in December.

## INCOME \& EXPENSES (continued)

## Let's Practice!

Jayden brings home $\$ 425$ each month. Help Jayden track his monthly income and expenses to determine how much money he has coming in, how much is going out, and whether or not he has enough income to pay his bills and expenses each month.

The chart below lists his income and expenses. Total his income and expense categories. Does Jayden have enough money to pay all of his bills?

| MY INCOME |  |
| :--- | :--- |
| After-school job | $\$ 300$ |
| Mowing neighbor's lawn | $\$ 125$ |
|  |  |
| INCOME TOTAL | $\$$ |


| FIXED EXPENSES |  |  |
| :--- | :--- | :---: |
| Car payment | $\$ 150$ |  |
| Car insurance | $\$ 30$ |  |
| Loans/credit cards | $\$ 10$ |  |
| Savings | $\$ 25$ |  |
|  |  |  |
| FIXED EXPENSES TOTAL | $\$$ |  |


| FLEXIBLE EXPENSES |  |
| :--- | :--- |
| Gas/car maintenance | $\$ 60$ |
| Cell phone | $\$ 30$ |
| Entertainment | $\$ 40$ |
| Personal expenses | $\$ 25$ |
|  |  |
| FLEXIBLE EXPENSES TOTAL | $\$$ |

## CASH FLOW CONUNDRUM

Name: $\qquad$ -

Help! Todd is in a real conundrum...he's overspending and needs a plan. Read his story below and help him put the pieces to a solid plan together before it's too late.

## From Todd:

"I get an allowance for doing chores, which is usually about $\$ 75$ each month. My cell phone bill is $\$ 45$ a month. I use my phone for everything - texting, downloading movies, playing apps with my friends, you name it.

Let's see...the rest of my money goes toward hanging out with friends (\$10); buying clothes, new music, video games (\$10); and then into savings (\$10). I have \$70 in savings right now.

My problem is that I didn't realize how much I was using my phone last month until I went way, WAY over my allowable data. When I got my bill, I flipped! I really should have paid more attention. It was $\$ 256$ ! I don't have that kind of money. If I keep paying my regular \$50 a month, I'm going to continue to owe extra charges.

What else can I do? Do you have any ideas for how I can lower my expenses and increase my income so I can get rid of this debt?"


## WHAT IF...

Name: $\qquad$

What happens if you remove a small, unnecessary item from a budget? How do you think one small act can lead to big savings?

Let's find out! Imagine that you buy a daily coffee for $\$ 2$. Calculate the true cost of those java jolts for each of the time periods below.

One week: $\qquad$ (Not so bad,right?)

One month (30 days): $\qquad$ (Not great, butstill manageable.)

One year: $\qquad$ (Ouch! That's adding up.)

Five years: $\qquad$ (Whoa, slow down - Coffee costs that much?!)

Ten years: $\qquad$ (That's the cost of a car!)

Twenty years: $\qquad$
(OK...lesson learned: cutting small expenses can lead to big savings.)

If you don't buy daily coffee, what could you do with the money you save?

