

LEARNING OBJECTIVES

Students will:

- **identify common** individual and household expenses.
- **classify** expenses as fixed or variable.
- analyze budgets.
- draw conclusions about the use of budgets to track personal finances.

MIDDLE SCHOOL | UNIT 1 Being Financially Responsible

Title Puzzling Budgets

Content Area

Financial Literacy: Family and Consumer Sciences and Business

Grades

6-8

Overview

What is a budget, and why should you use one? The lesson begins with students discussing common expenses and learning the difference between fixed and variable expenses. Students then participate in a hands-on activity in which they receive pieces of several budgets and work together to compile them into ones that balance. Once the budgets are together, they will review the components and answer questions about them.

Themes

Personal Finance: Budgeting

Family and Consumer Sciences: Consumer and Family Resources

Business: Personal Finance

National Standards for Personal Financial Literacy

Council for Economic Education and Jump\$tart Coalition for Personal Financial Literacy, 2021

II. Spending 8-1. Creating a budget can help people make informed choices about spending, saving, and managing money in order to achieve financial goals.





In School

National Standards for Family and Consumer Sciences Education

National Association of State Administrators of Family and Consumer Sciences, 2018

- 2.5.1 Analyze the use of resources in making choices that satisfy needs and wants of individuals, families, and communities.
- 2.5.4 Analyze practices that allow families to maintain economic self-sufficiency.
- 2.6.1 Evaluate the need for personal and family financial planning.
- 2.6.2 Apply financial management principles to individual and family financial practices.
- 2.7.1 Demonstrate management of individual and family finances by applying reliable information and systematic decision making.
- 2.7.3 Manage money effectively by developing financial goals and budgets.

National Standards for Business Education

National Business Education Association, 2023

Personal Finance III.1.4 Define fixed and variable expenses.

Personal Finance III.1.5 Categorize expenses as fixed or variable.

Personal Finance III.1.6 Classify periodic expenses as fixed or variable.

Personal Finance III.1.7 Determine discretionary income in a spending plan.

Connect

How does this connect to the student?

Budgeting is often discussed in the context of adults spending money. This activity encourages students to explore how adolescents spend money and compare that with spending at other ages.

How does this connect to careers?

Budget Analyst: Individuals and families are not the only ones that use budgets. Budget analysts help public and private institutions organize their finances. They prepare budget reports and monitor spending.

How does this connect to technology?

There are many apps and programs people can use to track their expenses and create a budget. Before selecting one, students should understand what budgets are and how they are used.

Key Terms

Budget, income, expense, gross pay, net or take-home pay, fixed expenses, variable expenses



Prepare

Background: People use *budgets* to track their *income* and *expenses*. Most budgets put expenses into common categories such as food, entertainment, and housing. By using a budget, people are able to reflect on their spending and determine changes they might need to make in order to avoid debt or increase their savings.

In this activity, students will be given "puzzle" pieces of example budgets in order to locate working groups. Six sample budgets are provided in the **Budget Puzzles Handout** to allow for various class and group sizes. In advance of the lesson, you should consider how many students you have, the number of budgets you will use, and how many students you want in each group. The more students are in a group, the more pieces you will cut that budget into when preparing. You will also decide how you want to cut the pieces. You may choose to cut them into rectangles, L-shaped pieces, or other shapes. How you cut them will determine how much work students will need to do in order to put the pieces together. If you cut the pieces in advance of class and students are absent, let the class know where they can find the extra pieces in order to make a complete budget (i.e., on a table or desk).

Materials

- **Budget Puzzles Handout**—two copies of each (Cut one into pieces as described above. Reserve the second copy for reference.)
- Budget Analysis Student Capture Sheet—one copy per group of students
- Budgeting: What Is It and How Does It Work? Unit 1 Student Video
- Tape (optional)
- Calculators (optional)

Engage

- Ask students what they or their families spent money on in the past month. Challenge students to brainstorm at least 20 unique expenses. Document their responses on the board or in a shared document.
- Review several of the expenses and prompt students to consider if they occur on a regular basis or not. Explain that regularly occurring expenses are called *fixed expenses* while the rest are *variable expenses*.
- Identify each of the expenses on the list as fixed or variable as a class or in smaller groups.
- Tell students that one way to track expenses is to create a *budget*.
- Play the video, <u>Budgeting: What Is It and How Does It Work?</u> (3:17). Discuss the components of a budget, including *income* and *expenses*.
- Ask students what categories they would include on a budget and if they would match up with the ones for the average teen as shown in the video (food 24%; clothing 19%; video games and electronics 15%; transportation 9%; makeup and accessories 9%; shoes 8%; and miscellaneous 16%).¹

¹ Source: Taking Stock with Teens, Spring 2018, Piper Jaffrey



Teach

- Let students know they will be divided into groups to examine a budget. To determine the groups, each student will receive a "puzzle" piece of a person's or family's budget. They will need to move around the room comparing their pieces to those of their classmates and put them together like a puzzle.
- Distribute one budget piece to each student from the **Budget Puzzles Handout** and allow time for students to locate their group members. See the Background section for additional information on cutting the budgets and allocating the pieces.
- Make calculators available to students, if needed, for them to total income or expenses.
- As students locate their group members, check their puzzle pieces against the originals. If correct, give students tape to put their pieces together or hand them an original copy to reference.
- Provide each group with a copy of the **Budget Analysis Student Capture Sheet**. Direct students to review the information on their budget and answer the questions. Let students know that they should be prepared to share their findings with the class.
- Call on groups to share and discuss their budgets.

Conclude

- Challenge students to consider the benefits of using a budget. Ask students what purpose they serve and what might happen if people do not use a budget.
- Remind students that the video mentioned a variety of ways to keep a budget, including apps, spreadsheets, and by hand. Ask students which method, if any, they can imagine themselves using in the future.
- Direct students to submit an exit ticket answering the question: How will I keep a budget for myself in the future?

Extend

- **Math:** Expand upon your discussions of budgets with materials from the <u>Recommendations versus Reality: Budgeting</u> in the <u>Real World</u> activity which has students consider the percent allocated to each expense category in a budget.
- **Technology:** Invite students to create a budget using a spreadsheet. They should develop categories and use formulas to calculate the budgeted amounts and totals.
- Writing: Direct students to write about budgeting. They can write an informative piece that explains how a budget is developed, a persuasive essay encouraging a person to budget, or a narrative in which a character decides to budget.
- Family: Encourage students to discuss budgeting with their family. What categories of expenses does the family have?

Budget 1	Monthly Amount	Budget 2	Monthly Amount
INCOME		INCOME (after taxes)	
Part-time job	\$336	Part-time job	\$400
TOTAL INCOME	\$336	Tutoring	\$120
EXPENSES		TOTAL INCOME	\$520
Eating out	\$85	EXPENSES	
Clothes	\$40	Car insurance, gas, and maintenance	\$260
Makeup and accessories	\$25	Gym membership	\$40
Hair cut	\$30	Eating out	\$80
Music streaming service	\$10	Video games	\$20
Entertainment	\$30	Clothes and shoes	\$40
Saving	\$80	Cell service	\$50
Miscellaneous	\$20	Dates	\$20
TOTAL EXPENSES	\$320	Saving	\$10
		TOTAL	\$520

udget 3	Monthly Amount	Budget 4	Monthly Amo
NCOME (after taxes)		INCOME (after taxes)	
Part-time job	\$300	Job as a veterinary technician	\$1,895
TOTAL INCOME	\$300	TOTAL INCOME	\$1,895
XPENSES		EXPENSES	
Cell phone plan	\$125	Housing (rent and insurance)	\$855
Eating out	\$50	Utilities	\$150
Fraternity dues	\$50	Health insurance	\$500
Books and supplies	\$40	Cell phone	\$125
Miscellaneous	\$30	Food	\$200
TOTAL	\$300	Social and entertainment	\$120
		TOTAL	\$1,895

Budget 5	Monthly Amount	Budget 6	Monthly Amount
INCOME (after taxes)		INCOME (after taxes)	
Full-time job	\$2,500	Full-time job	\$1,585
Side hustle	\$225	Full-time job	\$1,400
TOTAL INCOME	\$2,725	TOTAL INCOME	\$2,985
EXPENSES		EXPENSES	
Housing (rent and renters insurance)	\$800	Housing expenses	\$875
Utilities	\$75	Utilities	\$280
Car expenses	\$200	Life insurance	\$50
Medical expenses (insurance, prescriptions, copays)	\$300	Health insurance	\$600
Cell phone and internet	\$125	Childcare	\$500
Food	\$250	Transportation	\$200
Personal care (hair, clothes)	\$75	Food	\$300
Entertainment	\$150	Entertainment	\$150
Charity	\$100	Child care expenses	\$400
Savings—house down payment	\$400	TOTAL	\$3,355
Savings-general	\$150		
TOTAL	\$2,725		

Budget 7	Monthly Amount	Budget 8	Monthly Amou
INCOME (after taxes)		INCOME (after taxes)	
Full time job	\$1,600	Retirement income	\$2,500
Full time job	\$1,400	TOTAL INCOME	\$2,500
TOTAL INCOME	\$3,000	EXPENSES	
EXPENSES		Housing (insurance and taxes)	\$250
Mortgage payment and homeowners insurance	\$1,050	Utilities	\$175
Utilities	\$300	Pet supplies and insurance	\$100
Pet care	\$120	Medical expenses (insurance, prescriptions,	\$400
Health insurance	\$550	copays)	
Cable and streaming services	\$115	- Internet	\$85
Cell phones with data		Cell phones	\$150
plans	\$250	Gifts	\$100
Food	\$220	Food (groceries and eating	\$400
Gym memberships	\$80	out)	
Charitable giving	\$50	- Travel expenses	\$600
	<u>ل</u> رب	Charity	\$40
Saving	\$265	TOTAL	\$2,500
TOTAL	\$3,000		

Budget Puzzles | Facilitation Guide

Budget 1

- Sample answer for who might have this budget: Teenager who works part-time and does not drive
- Items to note: expenses are less than income, includes savings

Budget 2

- Sample answer for who might have this budget: Teenager who works two part-time jobs and drives
- Items to note: includes car expenses, budget is balanced, budget for dating (Is this realistic?)

Budget 3

- Sample answer for who might have this budget: College student who works part-time and pays for things like books/ supplies, club dues, etc.
- Items to note: balanced budget, no savings

Budget 4

- Sample answer for who might have this budget: Young adult who works full time and lives on his/her own
- Items to note: budget is balanced, no savings, no transportation expenses

Budget 5

- Sample answer for who might have this budget: Young adult who works full time plus has a side-gig, lives on his/her own, and is saving for a down payment on a house
- Items to note: budget is balanced, includes two savings goals, includes charity

Budget 6

- Sample answer for who might have this budget: Young family with childcare expenses
- Items to note: budget is not balanced, includes expenses for children, no money for savings

Budget 7

- Sample answer for who might have this budget: A couple with no children
- Items to note: budget is balanced, shows expenses for pets, includes money for savings

Budget 8

- Sample answer for who might have this budget: Retired individual or couple
- Items to note: lower budget is balanced, housing expense assumes home is paid for; no savings, includes categories for gifts and travel

Budget Analysis

Directions: Review your group's budget and answer the questions below.

- 1. Budget Owner
 - a. Do you think this is a budget for an individual or a family? Why?
 - b. What person or people do you think have this budget?

2. Budget Amounts

- a. What is the total income?
- b. What is the total of the expenses?
- c. Which is greater, the income or the expenses? Is this a good or bad thing? Why?
- d. Are there more fixed or variable expenses on the budget? What is the total of the fixed expenses?

3. Grade the Budget

- a. What-if any-budget categories do you think are missing?
- b. Do you think the budget is realistic? Why?
- c. Does the budget include savings? If so, is the amount enough? If not, how much do you think they should be saving?
- d. If you were giving a grade to the person or family that created this budget, what would you give and why?