Exploring Climate and Financial Literacy Kits

Today's Skills for Tomorrow's Libraries Summer 2025 Tammy Kruger, Literacy Specialist



About the Literacy Kits

- Provide books, suggested online resources, and printables (please photocopy for use)
- ▶ 8-week checkout
- NDSL pays for kit to library/organization; library/organization pays shipping back to NDSL
- Can be requested through OPAC (Polaris)
- More information
 - ▶ LibGuides -- STEAM STEM Kits Climate Literacy Kit

Climate Literacy Kits

What is Climate Literacy?

- Climate literacy is the understanding
 - of how Earth's climate system works,
 - how human actions influence it, and
 - how climate change impacts people and other living creatures.



Why is Climate Literacy Important?

- Climate literacy helps:
 - ▶ People make informed decisions in their day-to-day lives,
 - ▶ People adapt to climate changes,
 - People contribute to helping the earth

Climate Literacy Kit: Exploring Our Climate (K-2)

- ► This program in a box includes 6 lesson plans about climate, weather, seasons and ecology for grades K-2. The North Dakota science and library media standards that these lessons pertain to are included, as well as lists of additional resources to expand the lessons even more.
- ▶ 6 Lessons with each lasting approximately 45 minutes
 - Could be broken down into different sessions
- Comes with handouts/worksheets for learners to do together or at home

Learning Objectives

- Students will be able to:
 - ▶ Identify and describe different types of weather conditions
 - Recognize and label the four seasons
 - Understand the difference between weather and climate
 - ▶ Identify and discuss various ways in which climate affects living things
 - ▶ Recognize the importance of taking care of the environment for a healthy climate
 - Demonstrate basic knowledge of how to reduce their carbon footprint and protect the planet

Lessons

- Weather Watchers
- Seasons in Motion
- Weather vs. Climate
- Climate Zones Around the World
- Climate and Living Things
- Caring for Our Climate



Lesson 1: Weather Watchers

- Introduction to weather and daily variations
- Observe and record weather conditions for a week
- Discuss different types of weather and how they make us feel







Lesson 2: Seasons in Motion

- ▶ Introduce the concepts of seasons and their characteristics
- Explore the changes in weather and nature during each season
- Create a seasonal calendar

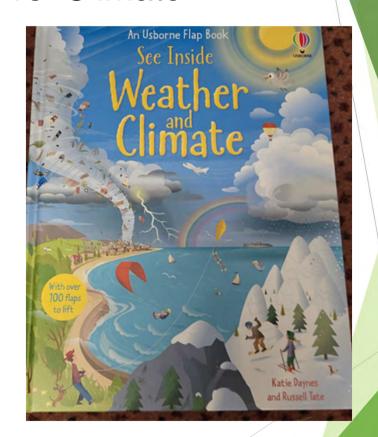






Lesson 3: Weather vs. Climate

- Define weather and climate
- Compare and contrast daily weather patterns with long-term climate patterns
- Engage in group discussions and simple experiments to reinforce understanding



Lesson 4: Climate Zones Around the World

- Introduce different climate zones (tropical, temperate, polar)
- Explore and identify characteristics of each climate zone
- Create a collaborative library display showcasing different climate zones



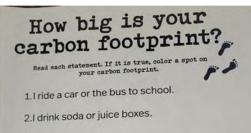
Lesson 5: Climate and Living Things

- Discuss the impact of climate on plants, animals, and humans
- Explore how different animals adapt to specific climates
- Engage in hands-on activities and role-play to understand these concepts

Role-Play and Discussion (15 minutes)

- Assign students different roles, such as a polar bear, a cactus, a fish, or a human.
- Use the climate related props to represent different weather conditions.
- Have students act out how their assigned plant or animal would respond to those weather conditions.
- Discuss.

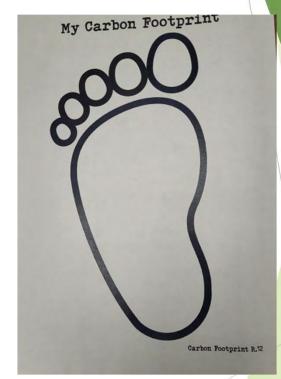
Lesson 6: Caring for Our Climate



- 3.I eat fast food a lot.
- 4. I leave the water on when I brush my teeth.
- 5. I take a shower or bath every day.
- 6. I sometimes leave the light on.
- 7. I leave my electronics plugged in.
- 8. I throw everything in the garbage.
- 9. I use plastic bags at the grocery store.
- 10. I spend an hour or more on games or TV.

Carbon Footprint R.12

- Discuss the importance of taking care of the environment
- Introduce basic ways to reduce our carbon footprint (recycling, conserving energy)
- Engage in a library project focused on environmental stewardship



Climate Literacy Kit: Exploring Our Changing Climate (3-5)

► This program in a box includes 6 lesson plans about climate, weather, climate change and ecology for grades 3-5. The North Dakota science and library media standards that these lessons pertain to are included, as well as lists of additional resources to expand the lessons even more.

Learning Objectives

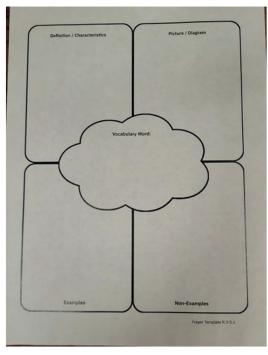
- Identify and describe different types of weather conditions
- Recognize and label the four seasons
- Understand the difference between weather and climate
- Identify and discuss various ways in which climate affects living things
- Recognize the importance of taking care of the environment for a healthy climate
- Demonstrate basic knowledge of how to reduce their carbon footprint and protect the planet

Lessons

- Introduction to Climate Variability and Climate Change
- Earth's Changing Climate
- Human Activities and Climate Change
- ND's Ecosystem and the Effects of Climate Variability and Change
- Mitigating Climate Change
- Taking Action for a Sustainable Future



Lesson 1: Introduction to Climate Variability and Climate Change



- Understand the difference between weather and climate
- Explore examples of climate variability and climate change effects
- Introduce key vocabulary related to climate change

Lesson 2: Earth's Changing Climate

- Investigate natural factors influencing climate change
- Examine historical climate change evidence
- Discuss the role of greenhouse gases and the greenhouse effect





Lesson 3: Human Activities and Climate Change

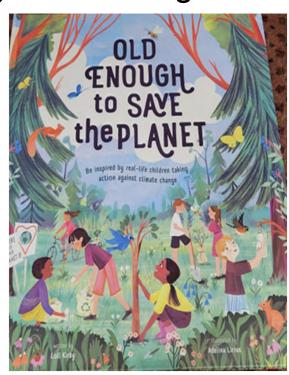
- Identify human activities that contribute to climate change
- ▶ Discuss the impact human actions on the climate system
- Investigate the carbon footprint and exploring ways to reduce it





Lesson 4: ND's Ecosystem and the Effects of Climate Variability and Change

- Explore the impact of climate variability and climate change on ND's ecosystems
- Examine the effects on wildlife and habitats
- Discuss strategies for preserving local biodiversity



Lesson 5: Mitigating Climate Change

- ldentify ways to mitigate climate change and reduce greenhouse gas emissions
- Investigate renewable energy sources (solar, wind, hydro)
- Explore sustainable practices and responsible consumption habits

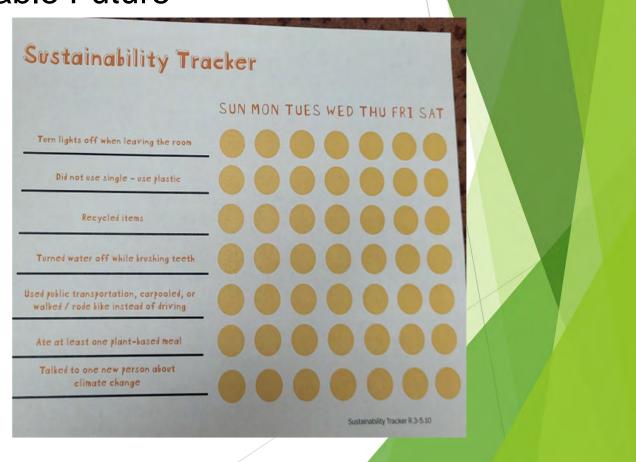






Lesson 6: Taking Action for a Sustainable Future

- Discuss the importance of environmental stewardship and personal responsibility
- Encourage students to brainstorm and plan climate action projects
- Present and share climate action projects with the community



Climate Literacy Kit: Empowering Tomorrow's Leaders (Teens)

➤ This program in a box includes 5 lesson plans about climate, drought, climate change and renewable energy sources for middle and high school students. The North Dakota science and library media standards that these lessons pertain to are included, as well as lists of additional resources to expand the lessons even more.



- Explore sustainability and conservation opportunities, including careers and day-today tasks
- ▶ Recognize the local and global importance of addressing climate change
- Explore local and global climate movements and organizations

Lessons

- Introduction to Climate Variability and Climate Change
- Exploring Climate and Agriculture in North Dakota
- ► Climate Solutions and Sustainability
- Climate Responsibility and Community Action
- Green Future



Lesson 1: Introduction to Climate Variability and Climate Change

- Understand the basics of climate variability and climate change, including its causes and consequences
- Differentiate between weather and climate
- Recognize the local and global significance of addressing climate change



Earth's Reflectivity

Earth's reflectivity is also known as albedo and it refers to how much sunlight is reflected back into space by Earth's surface. Surfaces with high albedo, like snow and ice, reflect a large portion of incoming sunlight, helping to keep the planet cooler. However, as climate change causes ice to melt and reduces the extent of reflective surfaces, more sunlight is absorbed by the Earth's surface, leading to higher term pratures.

Lesson 2: Exploring Climate and Agriculture in North Dakota



- Explore the specific impacts of climate on agriculture in North Dakota
- Identify local climate change initiatives and organizations
- Develop research and presentation skills to communicate climate-related issues effectively

Lesson 3: Climate Solutions and Sustainability

- Define sustainability and its importance in everyday life
- Learn practical sustainable practices for reducing environmental impact
- Create a personal sustainability plan and track progress

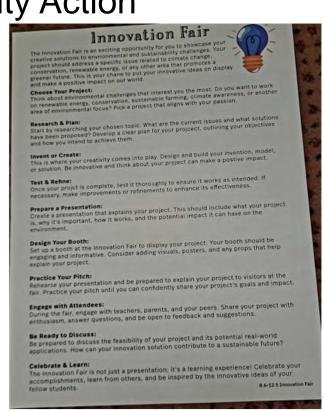






Lesson 4: Climate Responsibility and Community Action

- Recognize the significance of youth involvement in climate action
- Explore climate movements and organizations
- Plan and initiate a local conservation/sustainability project or event





Lesson 5: Green Future



- Envision a sustainable future with more eco-friendly renewable energy, transportation, and sustainable agriculture
- Explore career opportunities in environment science and sustainability
- Recognize the role and importance of addressing climate change

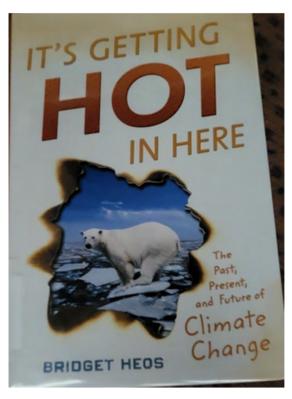
Climate Literacy Kit: Sustainable Living: The Past, Present, and Our Future (Adult)

► This program in a box includes 6 lesson plans about climate, ecology, sustainable living, climate change, carbon footprints, and renewable energy sources for adult learners. There are also eight craft project ideas designed to reduce, reuse and recycle. (Craft project supplies are not included in this kit).

Lessons/Focuses

- Introduction to Climate Change and North Dakota
- Understanding Climate Change
- ▶ Impacts of Climate Variability and Change in North Dakota's Ecosystems
- Climate and Agriculture in North Dakota
- ► Climate Change Mitigation and Solutions
- ▶ Taking Action Community Engagement and Advocacy

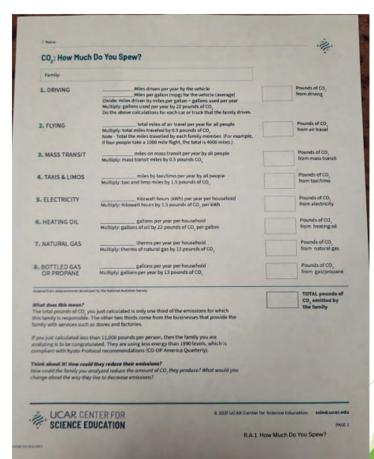
Lesson 1: Introduction to Climate Change and North Dakota



- Overview of climate change
- Specific focus on climate trends and challenges in North Dakota
- Discussion of trends and challenges

Lesson 2: Understanding Climate Change

- Basic principles of climate science with a focus on greenhouse gases
- Utilizing carbon footprint calculators and setting reduction goals



Lesson 3: Impacts of Climate Variability and Change in North Dakota's Ecosystems

- Examination of climate change effects on local flora, fauna, and habitats
- ▶ ND Habitats Scavenger Hunt

ND Habitats Scavenger Hunt: Participants form teams and follow clues that take them to various parts of the library. They answer questions about different habitats to receive the next clue.

Lesson 4: Climate and Agriculture in North Dakota



- Exploration of climate change's impact on farming practices and agricultural communities
- Sustainable gardening workshop featuring droughtresistant crops and soil conservation techniques

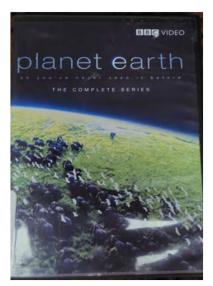
Lesson 5: Climate Change Mitigation and Solutions

- ▶ Introduction to renewable energy sources and their potential in North Dakota
- Discussion of renewable energy sources and climate change

Information on Nuclear,
Unconventional Fossil
Fuels, Geothermal,
Hydrogen, Wind, and
Biofuels Energy Options

Lesson 6: Taking Action – Community Engagement and Advocacy

- Group project planning sessions for community action plans addressing climate issues
- Presentations and discussions on actionable plans for advocacy and engagement



Financial Literacy Kits

What is Financial Literacy?

- Financial literacy is
 - ▶ the knowledge and ability to manage money effectively, and
 - ▶ The ability to make informed decisions about finances.



Why is Financial Literacy Important?

- Financial literacy helps people:
 - ▶ Make informed decisions about their money,
 - Avoid financial pitfalls,
 - ► Achieve short-and long-term financial goals, and
 - Reduce stress around money.

Financial Literacy Kit: Making Cents of Money (K-2)

Sections

- 1) Basic Money Concepts
- 2) Wants and Needs
- 3) Budgeting
- 4) Earning Money
- 5) Borrowing vs. Buying
- 6) Home Connections and Additional Activities



Learning Objectives

- Learners will explore how money is used.
- ▶ Learners will examine monetary values of coins and bills.
- ► Learners will practice counting money.
- Learners will explore examples of wants.
- ▶ Learners will explore examples of needs.
- Learners will explore what a budget is.
- Learners will practice prioritizing their own budgeting.
- ▶ Learners will demonstrate understanding of the different budgeting categories of Save, Spend, and Share.

Learning Objectives Continued

- Learners examine ways for kids to make money.
- Learners explore ways for adults to make money.
- Learners compare jobs to hobbies.
- Learners will examine when to buy and when to borrow an item.
- Learners will explore how to be a responsible borrower.
- ▶ Learners will determine situations where they would or would not lend an item.
- Learners practice financial literacy skills through playing, crafts, and family activities.

Section 1: Basic Money Concepts

- What is money?
- ► How is money used?
- What are the monetary values of different coins and bills?
- ► How to count (or add) money.

Basic Money Concepts Examples

Roll the Die!

Directions: Participants are put into small groups. All players start on line one. Players take turns rolling a die. They mark of the coin or bill associated with the number rolled on line one. So, a 1 rolled means they mark off a penny. If they roll a number for a coin that is not in row one, they do not mark off any coins or bills. The first to mark all their coins and bills in row one wins that row. After someone wins, all players go to row that and repeat the process. All players add up the total of each row by the end of the game

Number rolled	Money to cross off
1	Penny
2	Nickel
3	Dime
4	Quarter
5	Half Dollar
6	Dollar

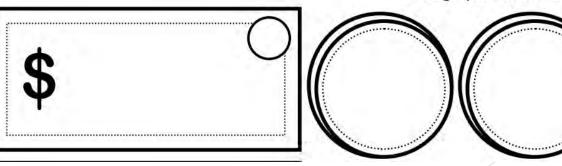








Design your own money.



Section 2: Wants and Needs

What are differences between wants and needs?

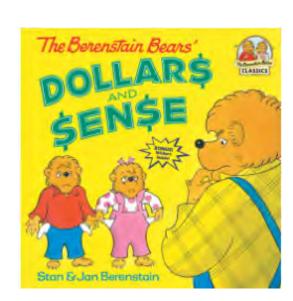


Wants and Needs Examples

Save, Spend, or Share Activity

You receive \$20 each week for allowance. Are these items things that you a) can buy now (Spend), can buy later after you have saved more (Save), or gift to someone else (Share)? Remember, not everyone needs to agree. But be ready to say why you feel the way you do!

- 1) A candy bar it is a save, spend, or share? Why?
- 2) A Barbie dream house is it a save, spend, or share? Why?
- 3) Food for the homeless shelter is it a save, spend, or share? Why?
- 4) A gift for your brother is it a save, spend, or share? Why?
- 5) A bus ticket is it a save, spend, or share? Why?
- 6) A new collar for your dog is it a save, spend, or share? Why?
- 7) Shoes for school is it a save, spend, or share? Why?
- 8) Fresh fruits and vegetables are they a save, spend, or share? Why?
- 9) Playdoh is it a save, spend, or share? Why?
- 10) A new tablet is it a save, spend, or share? Why?



Section 3: Budgeting

- What is a budget?
- ► How should a budget be organized? (Save, Spend, Share)
- What activities fall under the different categories for budgeting?



Budgeting Examples

Which pet or pets could be right for you and your family?

Pet		Time	Money
Fish		0	0
	Hamster	99	00
	Bird	999	000
	Cat	0000	0000
	Dog	99999	00000

1) SAVING, SPENDING, SHARING, BUDGET A
Financial Literacy Musical Adventure for
Planning Your Money (MicheLee Puppets) (6
minutes) --

https://www.youtube.com/watch?v=nLPZzUp3U

<u>es</u>

Section 4: Earning Money

- What are ways for adults to earn money?
- What are ways for kids to earn money?
- What are differences between a job and a hobby?



Earning Money Examples

How can you earn money now?

Now think of a job that you might be able to do now to earn your own money. Draw a picture showing that job.

Job or Hobby List

Read the activities to participants. Students stand if they think the activity is a job and stay seated if they think it's a hobby. For each activity, ask one or two students to explain their answer. Remember, some activities could be either a job or hobby.

- 1. Painting
- 2. Caring for people in a hospital
- 3. Sewing a dress
- 4. Cooking meals for many people
- 5. Playing baseball
- 6. Teaching a class
- 7. Fixing computers
- 8. Singing
- 9. Planting vegetables
- 10. Flying a plane

Section 5: Borrowing vs. Buying

- What are situations where an item should be borrowed?
- What are situations where an item should be bought?
- What are ways to be a responsible borrower?
- What types of items should be lent?

Borrowing vs. Buying Examples

Being a Responsible Borrower

- 1) Ask for permission to borrow something.
- 2) Ask when you should return it.
- 3) Take good care of it while you're using it.
- 4) Return it on time and in good condition.
- 5) Thank the person who lent it to you.

Would You Lend?

Think about the below scenarios. In them would you lend (give to someone else expecting it back) or not? Discuss learners' responses.

- 1) Would you lend your toothbrush? Why or why not?
- 2) Would you lend your favorite toy to a friend? Why or why not?
- 3) Would you lend extra gloves to a classmate who forgot theirs? Why or why not?
- 4) Would you lend a piece of gum? Why or why not?
- 5) Would you lend the blanket that helps you sleep at night? Why or why not?
- 6) Would you lend your house keys to a stranger? Why or why not?
- 7) Would you lend your scissors to a classmate? Why or why not?

Section 6: Home Connections and Additional Activities

- What are some family financial literacy activities?
- What are financial literacy board, card, or online games?
- What are some financial literacy crafts to make?

Home Connections and Additional Activities Examples

Race to 100 card game

This is a modified game. Take five card types out of a standard 52 deck – let's say Ace, 2, 3, 4, and 5. Assign each card a monetary value: Ace is \$0.01, 2 is \$0.05, 3 is \$0.10, 4 is \$0.25, and 5 is \$0.50. Players take turns drawing a card from the pile, stating the coin's name, and adding that monetary amount to their own pile. The first player to \$1.00 wins!

Mock Store

Materials:

- A "store" area
- Money (fake is likely best)
- Price tags on items
- · A cashier and at least one customer

Practice Making Change

1) Bankaroo's Money Tree -- https://bankaroo.com/3-money-related-crafts-for-kids/

Financial Literacy Kit: The Financial Launchpad (3-5)

Sections

- 1) Wants vs. Needs
- 2) Money Values and Making Change
- 3) Budgeting
- 4) Banking
- 5) Earning Money
- 6) Home Connections and Additional Activities



Learning Objectives

- ▶ Learners will explore examples of wants.
- ▶ Learners will explore examples of needs.
- ▶ Learners will practice prioritizing wants and needs.
- ▶ Learners will explore the values of U.S. coins and bills.
- ► Learners will evaluate if trades are of equal value.
- Learners will practice making change.
- Learners will practice counting money.
- Learners will discuss what budgeting is.
- Learners will examine the different categories of budgeting: saving, spending, sharing, and investing.
- Learners will determine a personal savings goal.

Learning Objectives Continued

- Learners will examine what a bank does.
- Learners will determine good and bad ways to store money.
- Learners will explore banking terms.
- ▶ Learners will examine different types of jobs for kids.
- ▶ Learners will examine different types of jobs for adults.
- Learners will experiment with running a fake business.
- Learners practice financial literacy skills through playing, crafts, and family activities.

Section 1: Wants vs. Needs

- What are needs?
- What are wants?
- How do we prioritize needs and wants?



Wants vs. Needs Examples



High Need, Low Need, High Want, Low Want

- 1) Fresh fruit in the winter Is it a high need, low need, high want, or low want?
- Sunscreen when playing outside in the hot summer Is it a high need, low need, high want, or low want?
- 3) Sleep Is it a high need, low need, high want, or low want?
- 4) Time spent with people who love you Is it a high need, low need, high want, or
- 5) Playing sports Is it a high need, low need, high want, or low want?
- 6) Owning a pet Is it a high need, low need, high want, or low want?
- 7) Doing your homework Is it a high need, low need, high want, or low want?
- 8) Tickets to the movies Is it a high need, low need, high want, or low want?
- 9) Shelter Is it a high need, low need, high want, or low want?
- 10) The newest fashion clothing Is it a high need, low need, high want, or low want?
- 11) Boots that keep your feet warm and dry Is it a high need, low need, high want, or low want?
- 12) A birthday present for your best friend Is it a high need, low need, high want, or low want?





- ▶ What are the values of U.S. coins and bills?
- How do we make change?

Money Values and Making Change Examples

have the first card.

I have five pennies, three dimes, a quarter, and one five-dollar bill. Who has my total?

I have \$5.60

I have three quarters, one half dollar, ten pennies, one ten-dollar bill, and one twenty-dollar bill. Who has my total?

I have \$31.35

I have two pennies, three nickels, 1 dime, and four one-dollar bills. Who has my total?

I have \$4.27

Making smart money trades

Different coins and paper money have different values. The number of coins or dollar bills you have isn't the same as how much they're worth.

If you have one \$1 bill, and someone says they'll trade you some coins for it, you'll need to make sure that the value of the coins equals the value of your \$1 bill. It's important to be careful while trading money.

Trading money

- 1. Total each group of money and write it on the line under each group.
- 2. Compare the totals.
- Determine whether the two groups of money would be an "Equal trade" or an "Unequal trade."
- 4. Check the box next to your answer.

Groups of money





☐ Equal trade ☐ Unequal trade

Section 3: Budgeting

- What is a budget?
- ► How do we budget?
- Explain the different categories of budgeting: saving, spending, sharing, and investing.

Budgeting Examples

Picturing what you're saving for

Having a clear picture of what you want to save money for – and a plan to help you save money – can help you reach that goal.

Adults may want to save for a car or a house. What do you want to save for? It's helpful to imagine something you want and create a plan to save for it.

My savings goal							
I'm saving for							
Draw a picture of what you'd like to save money for in the frame below.							

Giving Bingo

Challenge yourself to complete as many of these giving activities as possible. Did you make at least one bingo?

Write a letter to	Play games	Make or bake	Give someone	Volunteer to
a friend telling	with people at	something for	a compliment.	help
them all the	a nursing	your someone		somewhere.
things you	home or	else.		
like about	community			
them.	center.			
List what	Make a card or	Pick up litter.	Donate food at	Let someone
you're thankful	treats for your		your local food	go ahead of
for and share it	mail person.		pantry.	you in line
with your				
family.				
Paint rocks	Do a chore that		Draw a picture	Get to know
and leave them	helps the		for someone.	someone new
in a park for	household.	Free Space		by
people to find.				asking them
				questions.
Hold the door	Read a silly	Donate books	Ask how you	Send a thank
open for	book and act it	and toys you	can help your	you note to
someone.	out for	no longer use.	teacher.	someone.
	someone.			
Do your chores	Invite a new	Give someone	Write a letter to	Use your
without being	student to sit	flowers.	your elected	talents to help
asked.	with you at		official about a	others.
	lunch.		cause vou	

Section 4: Banking

- Safe and unsafe places to store money.
- What is a bank?
- What does a bank do?
- Banking and money management vocabulary.



Banking Example

Money Terms Word Search

Find the underlined vocabulary words in the word search. Words may go forwards, backwards, or diagonally.

- An <u>ATM</u>, or Automatic Teller Machine, allows banking customers access to put money into or take money out of their accounts without communicating with a person at the bank.
- 2) A <u>budget</u> is a plan for someone's money.
- A <u>checking</u> account is a place to store money for day-to-day transactions, like paying bills.
- 4) A credit is money added to an account.
- 5) A debit is money taken from an account.
- 6) Currency is another name for money.
- 7) A debtor is someone who owes money.
- 8) A payee is someone to whom money is owed.

MB restricted to the

I L S D S T F A R D R E V O T
N R X M N A C U R R E N C Y N
C A T Q A U V Q P O K I C M E
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R P X W U R T I B E D B S A Q



Section 5: Earning Money

- Ways for kids to earn money.
- Ways for adults to earn money.
- Self-employed vs. being an employee.



Earning Money Examples

Playing career charades

Students play a game of charades to explore different careers.

Learning goals

Big idea

There are many different careers you can think about for your future.

Essential questions

- · What careers do people have?
- · What career would I like to have in the future?

Objectives

- Understand that there are many different careers you can explore
- Consider a career you might want in the future

What students will do

- · Share examples of careers.
- Play a charades game about careers.
- · Reflect on a career they might like to have.

KEY INFORMATION

Building block:

- Executive function
- Financial habits and r

Grade level: Elementary

Age range: 7-9

Topic: Earn (Learning abo Making money)

School subject: Fine arts arts, Social studies or his

Teaching strategy: Gami

Bloom's Taxonomy level: Analyze, Create

Activity duration: 45-60

National Standards for Prinancial Education, 202 Earning income: 4-1, 4-4,



You will begin a business selling cupcakes. Check off each step as you finish. You will:

- ____1. Name your business
 - 2. Decide how much your product will sell for
 - 3. Make a list of expenses your business will have
- ___ 4. Complete the budget worksheet
- 5. Write a paragraph telling whether your business succeeded or failed.
- _____6. Create a flyer and poster to advertise your business.

You are starting your business with \$200. You will sell about 10 cupcakes a day. You need flour (\$20), eggs (\$15), milk (\$20), sugar (\$20) and vanilla (\$10) for the cupcakes. For the icing you need eggs (\$15), powdered sugar (\$20) and vanilla (\$10). It will cost you \$50 to copy your flyers and posters.



Session 6: Home Connections and Additional Activities

- What are some family financial literacy activities?
- What are financial literacy board, card, or online games?
- What are some financial literacy crafts to make?

Home Connections and Additional Activities Examples

MAKE YOUR KID A MONEY DETECTIVE

A MONEY DETECTIVE works like a regular gumshoe, except the clues are when, where, and how your parents spend their money, and the mystery is where the money goes.

WHAT YOU'LL NEED: a pencil, the included Money Detective Notebook, a sharp eye.

COSTUME SUGGESTIONS: a cool hat, maybe a fedora; trench coat; dark shades; air of mystery

POSSIBLE SOUNDTRACK: "Peter Gunn," Henry Mancini; "Watching the Detectives," Elvis Costello

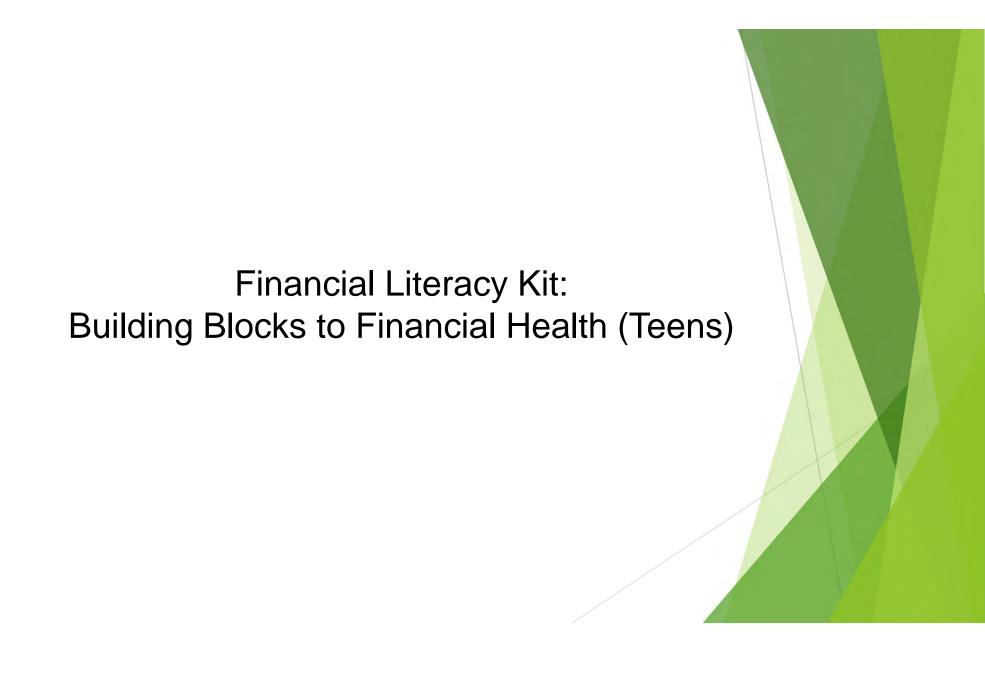
INSTRUCTIONS: Print out a few copies of the Money Detective Notebook on page 3, and carry it with you as you tail Mom or Dad for an entire day. (At a safe distance, of course. A private eye has to keep a low profile.) Every time your parent spends money, write down the item or service purchased, the location, and the exact amount spent—no matter how small. At the end of the day, tally up all of their expenses, then show Mom or Dad into your office to review the case. Now divide up the list. How many purchases were Wants and how many were Needs?

FOR DISCUSSION: Developing and sticking to a budget begins with understanding how much money you're spending, and on what. Sometimes even mons and dads don't know where all the money in their paychecks goes. Good thing they've got you around, Detective! Your investigation is doing the whole family a favor by tracking down all the small—and not so small—expenses. Follow the clues, and you might just find out how they can cut back and save some cash. Case discussion.

Board and Card Games:

Monopoly, Pay Day, The Game of Life, BankIt!





Sections

- 1) Needs vs. Wants
- 2) Budgeting
- 3) Paychecks and Taxes
- 4) Higher Education and Career
- 5) Investing
- 6) Additional Activities



Learning Objectives

- Learners will examine differences between needs and wants.
- Learners will practice prioritizing and budgeting for needs and wants.
- ▶ Learners will explore what a budget is, how to make one, and different types.
- ▶ Learners will practice budgeting in real-life scenarios.
- Learners will track their own spending to help them better plan their budgets.
- Learners will examine the pros and cons of credit cards.
- Learners will examine the components of a pay stub.
- Learners will discuss what taxes are taken out of paychecks
- Learners will view W-2s and W-4s and discuss their purposes.

Learning Objectives Continued

- Learners will share reasons for taxes.
- Learners will examine the pros and cons of different choices after high school graduation: attending university, attending a trade school, going straight into a career, or joining the military.
- ▶ Learners will explore the FAFSA, including its purpose and components.
- Learners will discover types of financial assistance for higher education, including grants, work-study programs, scholarships, and loans.
- Learners will explore reasons to invest.
- Learners will analyze different types of investments.
- Learners will discover the possibility of investment scams and determine clues that an investment opportunity is not legitimate.
- Learners will expand upon their understanding of financial concepts through games.

Section 1: Needs vs. Wants

- What are wants?
- What are needs?
- Prioritizing wants and needs in budgeting.



Needs vs. Wants Examples

The first activity is Hot Air Balloon Exercise.

Materials:

- 1) One sheet of scrap paper per participant
- 2) Writing utensils

Directions:

- Tell learners to list all the stuff they need to live, from hair dryers, to makeup, to video games, to sports equipment, to Stanley cups, you name it. The items they use almost every day.
- Next, imagine they are about to hop into a hot air balloon and go for a ride, loading each of those possessions into that balloon.
- Then, once the balloon is full, they take off into the air and begin to float over the ocean.
- 4) Oh no! The balloon begins to run out of butane gas! It starts slowing down and dropping towards the ground. The only way to stay up is to toss some items overboard.
- 5) Discussion:
 - a. What do they throw away first?
 - b. How about next?
 - c. How about next?

Playing a Saving and Spending Game

Your friends are planning a night out at a nice restaurant. You weren't planning to go because it wasn't in your budget, but it seems fun. They said the cost would be around \$35 per person.

Will you go?

While you were shopping, someone backed into your car and dented the door. Repairing the door will cost you \$140. If you don't repair the door, your car may rust and have more costly problems later.

Will you repair the door?

You accidentally dropped your cell phone and badly cracked the screen, and it's almost unusable. You need your phone to get messages from your friends, family, and job. It'll cost \$100 to repair.

Will you repair the screen?

Section 2: Budgeting

- What is a budget?
- How do we make a budget?
- ▶ How do credit cards work?
- Ways to save money savings challenges



Budgeting Examples

JANE SMITH 1234 2300 5678 3456 STATEMENT DATE: Mar 09 20XX PREVIOUS STATEMENT: Feb 09 20XX

Mar 2

Mar 7

Total new balance

STATEMENT PERIOD: Feb 10 20XX to Mar. 09, 20XX

Mar 2

Mar 8

Net amount of monthly activity

Transaction date Posting Activity description Amount (\$) date \$168.80 Previous statement balance Convenience store \$14.83 Feb 9 Feb 10 Italian restaurant \$30.55 Feb 13 Feb 15 Clothing store \$27.50 Feb 17 Feb 17 Museum gift shop \$12.26 Feb 24 Feb 24 Grocery store \$40.10

Payment received

CONTACT INFORMATION: Customer Service

1-800-123-4567

PAYMENT INFORMATION

Minimum Payment \$10.00 Mar. 30 20XX \$1,500 Payment Due Date Credit Limit Available Credit \$1,362.16

Annual Interest Rate Purchases

-\$168.80

\$12.60

\$137.84

\$137.84

19.99% Cash Advances 22.99%

Estimated Time to Pay The estimated time to pay your New

Balance in full if you pay only the Minimum Payment each month is I year(s) and 4 month(s)

CALCULATING YOUR BALANCE	
Previous Balance	\$168.80
Payments & Credits	\$168.80
Purchases & Other Charges	\$137.84
Cash Advances	\$0
Interest	\$0
Fees	\$0
Sub-total	\$137.84
NEW BALANCE	\$137.84



Bate	Where	What	Why	Amt	M/N	P/U
					-	
-			+	1	+	
-					H	
					+	
-						-

Section 3: Paychecks and Taxes

- Reading a pay stub.
- What are different types of taxes?



Paychecks and Taxes Examples

Kirkland's Hardware, Nashville TN, 56565			's Hardware, Nashville TN, 56565 Earnings Statemer			ement
Employee Name Scott McNally	1111	:-ID X-9988	Employee ID 159753951	Check No. 059	Pay Period 12/12 - 12/25	Date 12/30
Income	Rate	Hours	Current Total	Deductions	Current Total	YTD
Regular Wage	14.50	30	435.00	FICA Med Tax	9.21	143.55
Holiday Bonus			200.00	FICA SS Tax	(5)	539.40
				FED Tax	69.85	957.00
				TN State Tax	31.75	435.00
				Health Ins.		
				401K		
YTD Gross	YTD Deduct		YTD Net	Total	Deductions	Net Pay
6	2,074.	95	6,625.05	635.00	150.18	1

What kinds of things do taxes pay for?

Taxes are part of our everyday lives. The three levels of government in the United States – federal, state, and local – each use taxes to pay for public programs.



- What are options after high school graduation?
- How does the FAFSA work?
- What are financial aid options for higher education?

Higher Education and Career

How to Choose the Best Path for You

There's no one-size-fits-all answer to what you should do after high school. Here are some key questions to ask yourself:

- What are my career goals?
 - College is likely necessary if your dream job requires a degree (doctor, enginee lawyer).
 - Vocational training might be best if you enjoy working with your hands or in a trade.
 - . If unsure, entering the workforce and gaining experience could help you decide.
- What is my financial situation?
- If avoiding student debt is a priority, trade school or direct workforce entry may be wiser ontions
- · If you qualify for financial aid and scholarships, college may be more accessible
- ♦ How do I like to learn?
 - . Do you prefer academic settings and theoretical learning? College is a good fit.
 - . Do you enjoy hands-on training and practical skills? Consider trade school.
- . Do you learn best by doing? Entering the workforce might be your best option.

Places to Find Scholarships

1) Scholarship America --

https://scholarshipamerica.org/students/browsescholarships/

2) Career One Stop --

https://www.careeronestop.org/toolkit/training/findscholarships.aspx

3) Big Future –

https://bigfuture.collegeboard.org/scholarship-search

- 4) Fast Web -- https://www.fastweb.com/
- 5) Scholarships.com -- https://www.scholarships.com/financial-

aid/college-scholarships/scholarship-directory/student-

organization



Section 5: Investing

- What is investing?
- Pros and cons of different types of investments.
- What are options for teens to invest?



Investing Examples

Investment Q & A Activity

Make copies as needed.

Questions to Ask Yourself Before Investing

- 1) Do you have money from a job or another source that you won't need to access immediately?
- 2) Can you afford to lose this money if your investments don't play out as planned?
- 3) If you're under age 18, do you have a parent or another adult willing to help you invest?
- 4) Do you know what you're getting into? In other words, do you understand the investment you're considering and how it works?

Answer:

- 1) Retirement savings,
- 2) Creating and growing an emergency fund,
- 3) Investing helps grow money through compounding. Your invested money grows interest which can be re-invested to grow interest of its own! This compounded money growing is a great form of passive income,
- 4) To help pay for higher education, and
- 5) For major purchases, such as a home or car.

Question: What is compound growth?

Answer: CD or Certificate of Deposit

Question: What are reasons to invest?

Answer: When, using a mix of time and reinvesting, your invested money makes more money by compounding the interest earned.

Question: What type of investments give shareholders a piece of ownership in the company?

Answer: Bonds

Question: What is an investment fund set up to help with higher education expenses?

Section 6: Additional Activities

What are online games about financial literacy?

Option game options: Looping Cards, Dollars and Sense, The Game of Life: Financial Literacy Exploration

Additional Activities Examples

The Game of Life	: Financial Literacy	Exploration	(Teachers	Pay
Teachers)				

Name _____ Date ____ Hour ____

Let's fast forward 10 years. You're about to start your adult quest

Adulting requires money, planning, and self-control.

Part 1: How much do you have saved up?

Pick a card from the deck. It will determine how much \$ you have in savings.

2 = \$2000 3 = \$3000 4 = \$4000 5 = \$5000 and so

on...

Face Card = \$15,000 Ace = \$20,000

Your amount of savings is:

Part 2: Landing the Job

Roll two dice. Your job depends on what you roll.



Looping Card Activity

I have the answer: College and vocational schools will use the FAFSA to see if you qualify for federal grants, work study programs, or federal student loans. Loans have to be repaid; however, federal student loans usually have better rates than loans from commercial banks. Also search for scholarships. Scholarships and grants do not have to be repaid. Some employers will also help pay for college.

Who has the answer to: Oh no! Someone hit my car while I was in the store and the person left without leaving information on my windshield. What insurance covers this?

I have the answer: Collision insurance would cover this.

Who has the answer to: My vehicle is paid off and I only have liability on it. Unfortunately I backed into a car. Will liability cover damages to my car?

Financial Literacy Kit: Financial Fitness (Adults)

Learning Objectives

- Learners will explore the importance of creating (and maintaining) a budget that balances, as well as preparing for unexpected expenses.
- ▶ Learners will examine different types of budgets.
- Learners will determine ways to save money through challenges.
- ► Learners will practice paying off debt using either the snowball or avalanche methods.
- ▶ Learners will explore how to use credit cards responsibly.
- Learners will examine a credit card statement.
- ▶ Learners will examine the personal information needed to obtain a mortgage.
- ▶ Learners will explore the steps of the mortgage process.
- ▶ Learners will perform a mock house search using online tools.

Learning Objectives, Continued

- Learners will examine different types of investments.
- Learners will look into retirement plan options.
- Learners will think ahead about their own investment and retirement goals.
- ▶ Learners will examine different types of common financial scams.
- ▶ Learners will practice predicting if something is a financial scam.
- Learners will explore ways to protect themselves from financial scams.
- Learners will examine ways to practice frugality in their own lives.
- ▶ Learners will determine how their own priorities affect their areas of frugality.

Section 1: Budgeting

- Budgeting 101
- Tracking Spending
- Saving Challenges



Budgeting Examples

Reverse or Pay Yourself First Budget

- Your savings (or investments) receive the first piece of your paycheck.
- The rest of those funds can be used on necessary and discretionary spending.



Tips to Help Save

- 1) Calculate purchases by hours worked instead of cost. Take the amount of the item you want to purchase and divide it by your hourly wage. For example, if you're considering a \$60 pair of shoes and you make \$10 an hour, ask yourself if those shoes are worth working for six hours.
- 2) Unsubscribe from marketing emails and texts from your favorite stores.
- 3) Make saving contributions automatic. Many online bank apps will allow you to do this!
- 4) Break down savings goals into bite-size pieces. Saving \$100 a month seems far more manageable than saving \$1200 by the end of the year.
- 5) Start saving for your retirement as early as possible. Compound interest and time are the best ways to build wealth!
- 6) Save your coins. You can either do this through setting aside actual coins in a container, or many banking apps will allow you to round up purchases to the nearest dollar and put the difference into your saving account.

Section 2: Debt

- Debt Payoff Methods
- ► The Scoop on Credit Cards



Debt Examples



JANE SMITH 1234 2300 5678 3456 STATEMENT DATE: Mar 09 20XX PREVIOUS STATEMENT: Feb 09 20XX

STATEMENT PERIOD: Feb 10 20XX to Mar. 09, 20XX

Transaction date	Posting date	Activity description	Amount (\$)
Previous statemen	\$168.80		
Feb 8	Feb 10	Convenience store	\$14.83
Feb 9	Feb 10	Italian restaurant	\$30.55
Feb 13	Feb 15	Clothing store	\$27.50
Feb 17	Feb 17	Museum gift shop	\$12.26
Feb 24	Feb 24	Grocery store	\$40.10
Mar 2	Mar 2	Payment received	-\$168.80
Mar 7	Mar 8	Toy store	\$12.60
Net amount of monthly activity			\$137.84
Total new balance			\$137.84

CONTACT INFORMATION:
Customer Service
1-800-123-4567

PAYMENT INFORMATION

Minimum Payment \$10.00 Payment Due Date Mar. 30 20XX Credit Limit \$1,500 Available Credit \$1,362.16

Annual Interest Rate

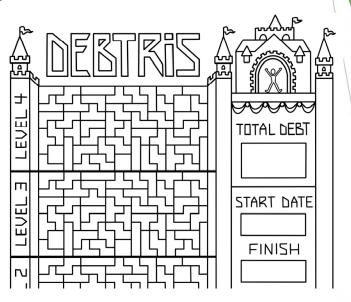
year(s) and 4 month(s)

Purchases Cash Advances 19.99%

Estimated Time to Pay
The estimated time to pay your New
Balance in full if you pay only the Minimum Payment each month is 1

CALCULATING YOUR BALANCE	
Previous Balance	\$168.80
Payments & Credits	\$168.80
Purchases & Other Charges	\$137.84
Cash Advances	\$0
Interest	\$0
Fees	\$0
Sub-total	\$137.84
NEW BALANCE	\$137.84

NEW BALANCE	MINIMUM PAYMENT	PAYMENT DUE DATE	AMOUNT PAID
\$137.84	\$10	Mar. 30 20XX	\$



Section 3: Mortgages

- Steps to Buying a Home
- ▶ How Much House Can You Afford?



Mortgage Examples

*Does not apply in all instances. How Much House Can You Afford? Factors Annual Income *Total Monthly Debts Down Payment Debt-to-Income Ratio Interest Rate Loan Term Property Tax Homeowners Insurance Private Mortgage Insurance* Homeowners Association Fees*

Using a mortgage calculator



Section 4: Investing and Retirement Planning

- Investing: How to Make Your Money Work for You!
- Managing Investments
- How to Get Started with Investing
- What Investments Are Best for You?
- Retirement: Life's Next Phase
- What Happens if You Don't Have Enough Money to Retire?
- Types of Retirement Plans and How They Are Used



Investing and Retirement Planning Examples

Types of Retirements Plans and How They Are Used

	Roth IRA	Traditional 403(b) or 401(k)	Roth Contribution to 403(b) or 401(k)
You open an account with an IRA provider.	You open an account with an IRA provider.	The account you contribute to is provided by an employer.	The account you contribute to is provided by an employer.
You make and manage your contributions.	You make and manage your contributions.	You make and manage your contributions. Your employer may contribute or match.	You make and manage your contributions. Your employer may contribute or match.
Reduces your taxable income today. Defers taxes until you withdraw in retirement.	You pay taxes now, but you're able to withdraw that money tax-free (including interest) in retirement.	Reduces your taxable income today. Defers taxes until you withdraw in retirement.	You pay taxes now, but you're able to withdraw that money tax-free (including interest) in retirement.
You expect to have a lower tax rate in retirement.	You expect to have a higher tax rate in retirement.	You expect to have a lower tax rate in retirement.	You expect to have a higher tax rate in retirement.
If you're under 50: \$7000 per year If you're 50 or older: \$8000 per year	If you're under 50: \$7000 per year If you're 50 or older: \$8000 per year	49 or below: \$23,500 per year 50 to 59: \$31,000 per year 60 to 63: \$34,750	49 or below: \$23,500 per year 50 to 59: \$31,000 per year 60 to 63: \$34,750
	with an IRA provider. You make and manage your contributions. Reduces your taxable income today. Defers taxes until you withdraw in retirement. You expect to have a lower tax rate in retirement. If you're under 50: \$7000 per year If you're 50 or older:	with an IRA provider. You make and manage your contributions. Reduces your taxable income today, Defers taxes until you withdraw in retirement. You expect to have a lower tax rate in retirement. If you're under 50: \$7000 per year If you're 50 or older: With an IRA provider. You make and manage your contributions. You pay taxes now, but you're able to withdraw that money tax-free (including interest) in retirement. If you're under 50: \$7000 per year If you're 50 or older:	with an IRA provider. You make and manage your contributions. You make and manage your contributions. Reduces your taxable income today. Defers taxes until you withdraw taxes now taxase unit retirement. You expect to have a lower tax rate in retirement. You expect to have a lower tax rate in retirement. If you're under 50: \$7000 per year If you're 50 or older: \$8000 per year You make and manage your contributions. Your employer may contribute or match. Reduces your taxable income today. Defers taxes until you withdraw in retirement. You expect to have a lower tax rate in retirement. If you're under 50: \$7000 per year Soon to to specify the provider. Soon thibute to is provided by an employer. You make and manage your contributions. Your employer may contribute or match. Reduces your taxable income today. Defers taxes until you withdraw in retirement. You expect to have a lower tax rate in retirement. You expect to have a lower tax rate in retirement. If you're under 50: \$7000 per year Soon to to specify the provider. Soon to to specify the provider. Soon to to specify the provider. Soon to specify the provider. You make and manage your contributions. Reduces your taxable income today. Defers taxes until you withdraw in retirement. You expect to have a lower tax rate in retirement. You expect to have a lower tax rate in retirement. Soon to specify the provider. Soon to specify the provider. You make and manage your contribute or ontribute or ontrib

Source: TIAA https://www.tiaa.org/public/learn/financial-essentials

What Investments Are Best for You?

This is dependent upon a few factors.

Are your goals short or long term?

Short Term	Long Term
Certificates of Deposit (CDs)	Stocks
Money Market Funds	Bonds
	ETFs
	Mutual Funds
	Annuities
	College Save 529 Plans
	Any Retirement Investments

2) What is your risk tolerance?

Typically, the higher the financial risk, the higher the reward if the investment works out. However, the stock market can be volatile, and some investors are nervous about losing large amounts of money during a downturn.

Range of risk tolerance from highest to lowest:

Aggressive - Moderate - Intermediate - Conservative

3) How do you approach diversification?

Diversification is the best way to mitigate risk while investing. Mutual funds and EFTs naturally diversify. However, they also can give less control over which investments are made. Individual stocks, bonds, and annuities give complete



Section 5: Scams

- Addressing Financial Scams
- ▶ Signs of a Possible Scam
- Types of Scams
- How to Protect Yourself from Scams



Scams Examples



Common and How to Avoid





Debt Settlement and **Debt Relief Scams**

- · Promise to renegotiate, settle, or change the terms of a debt you owe to a creditor or debt collector
- · Student loans, car payments, past taxes, credit cards



Section 6: Frugal Living

- Frugal Living 101
- ▶ Tips for Frugal Living
- ► Green, Yellow, and Red Lights



Frugal Living Examples

Crafting with Reused Materials

Cat Planter





Matariale

Frugality Bingo

This passive program challenges participants to try different types of frugal activities in order to get a bingol This game can be tied to prizes or simply for bragging rights.

Directions: Give each participant one copy of *Frugality Bingo*. Set a time limit, maybe one month, for them to complete as many activities as possible and return the card

Meal prep instead of ordering from a restaurant.	Visit a free museum or art gallery.	Eliminate subscriptions you do not use.	Put on a thrift store fashion show!	Practice photography— either by phone or camera.
Sell items you don't use.	Watch the sunset or sunrise.	Go bird watching. How many can you identify?	Volunteer for a cause you care about.	Have a movie night at home.
Put together a puzzle.	Check out media – books,	Free Space	Play board or card games	Gaze at the stars.

Meal Planning for a Family of Four

Instructions: Your task is to use grocery ads to plan one week worth of meals and snacks for a family of four on a budget of \$225. There must be 3 meals and 2 snacks per day for each family member. Use serving sizes to help determine in how many meals an item can be used. Snacks may be repeated if they come in packs, but only up to the amount in the pack. (For example: a 12 pack of crackers may be used as 12 different snack times.) This is about more than just the finances; it is also about creating a plan that could realistically work for a family. As such, some variety is key! Additionally, this project can be used for your actual family, so plan according to their tastes and preferences!



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