



MONEYVILLE (2,000 Square Feet) A TRAVELING EXHIBIT

Money isn't just about dollars and cents. The ancient Aztecs used chocolate for money, and Yap Islanders used 500-lb. stones! So what *is* money and how does it work? Now families, adults, and children can explore the history, science, math, and economics behind money in **Moneyville**. This new, highly interactive traveling exhibition uses the familiar and fascinating subject of money to build math skills and promote economic literacy in a fun, immersive urban environment.

Visitors enter the vibrant "city" of **Moneyville** and embark on an exciting hands-on tour through a money factory, an anti-counterfeiting lab, a bank, a shopping district, a stock market, and an international shipping dock. As participants engage in the multiple activities, games, and simulations of this imaginary city, they discover economic concepts, math skills, and problem-solving strategies that can help them in their real-life decision making. **Moneyville** is offered in 2,000 and 6,000 square-foot versions. Both sizes meet national math and economics standards, making both versions ideal for school groups (grades K-8). There are five major exhibition areas: *The Money Factory*; *The Bank*; *To Market, To Market*; *Dollars and Sense*; and *Global Trade*.

THE MONEY FACTORY

Explore the history, science and technology behind money. Examine hands-on examples of things used as money in the past, make your own money, and discover security measures used in U.S. currency as you work with high-tech tools to distinguish real money from counterfeit.

Anti-Counterfeiting Lab

Train to become a special agent and stay one step ahead of counterfeiters as you learn all about security features found on U.S. currency. At a video microscope, light a real bill from above or below and change the magnification to find hidden security measures such as microprinting, fine-line designs, and a watermark. At a second station, examine genuine bills under a black light to see another protective feature, glowing polymer threads. After completing your training, try to catch a counterfeiter by investigating four sets of images to determine which bill is real and which one is fake. (10-adult)

Face Value

Make money with *your* face on it using digital technology and explore what money communicates through the symbols chosen to appear on it. First, work with a computer program to create and design your own currency by choosing various elements of money such as denomination and graphical look. Then, take a picture of your face with a digital camera and watch as your image is inserted into your customized bill. You can even print it out and take it home with you! *Why are* portraits often used on money? To prevent counterfeiting, because people will notice subtle variations in a human face. (10-adult)

The History of Money—Money Mysteries Artifact Cases

Check out what's playing at the local movie theater and discover fascinating facts about the global evolution of money—what *is* money, why did it develop, who invented it, and what makes it valuable? You can touch, examine, and smell some of the many forms money has taken over time as you uncover such artifacts as stones, shells, feathers, fur, chocolate, silver coils and gold coins. You'll learn that money can be anything, as long as the people who use it agree on its value! (10-adult)

Making Money

Design your own money using crayons and an assortment of rubbings at this station resembling an engraver's desk. Decide on the value of your bill and create borders and backgrounds from a variety of symbols, numerals, patterns, portraits, and textures. Graphics show U.S. and foreign bills and explain the main elements and various symbols used on different currencies. The images on money not only show the currency's worth, but also tell us about the values and culture of the people who created it. What will your money tell about you? (5-8)

THE BANK

Examine the math behind money and learn how compound interest can really add up, or examine a see-through safe to discover what a million dollars looks like! At the *Kids Bank*, younger visitors learn to identify coins, recognize their values, and pretend to save, borrow, or lend money.

Kids Bank

With side-by-side teller windows, phones, calculators, and oversized coins, children can explore counting, addition, subtraction, and value while role-playing as bank tellers and customers. At activity tables, kids can play games involving money such as recognizing, sorting, adding, matching coins and their values, putting together money puzzles, and guessing the identities of hidden coins inside "safes." Younger visitors discover what banks do, find out that money is useful, learn about lending, borrowing, and saving, and realize that math is fun! (5-8)

Make a Million

In this computer simulation you are challenged to predict which savings account will end up with the biggest balance. Will it be Earl, the early saver (who saves small amounts each year but over a longer period), or Louise, the late saver (who saves large amounts each year but for fewer years)? A fun animation explains why Earl has much more saved by age 65 and shows how compounding works. Discover how compounding makes money grow and that it's important to start early; the longer you let an investment grow, the better off you'll be! (10-adult)

Million Dollars

Have you ever wondered what a million dollars looks like in one-dollar bills? Now's your chance to see the sheer magnitude of this amount of "money" dramatically displayed inside a see-through "safe". Discover what "a million" means through fun facts and thought-provoking questions: How much does a million dollars weigh?; If you start with a penny, then double it each day, how long until you're a millionaire?; How would you donate a million dollars if you were a millionaire? (8-adult)

TO MARKET, TO MARKET

Gain an understanding of markets, prices, supply, and demand. Run a “lemonade stand” and see how long you can stay in business and test your skills as an investor in the “stock market. In the *Kids Market*, younger children can sort, count, group, weigh, and “buy” market goods using play money, cash registers, and produce scales.

Kids Market

Children open shop in a farmers’ market with stalls, shopping baskets, carts, produce, flowers, and other goods as they take on the roles of buyers and sellers in a marketplace. By using play money, produce scales, price signs, cash registers, and calculators, young visitors learn about market interaction, exchange, values, sorting, counting, measuring, and grouping. They can sort baskets of fruit, establish prices with magnetic numbers on price boards, make change for their customers, and buy goods using oversized coins. Kids discover that math is not only practical, but fun! (5-8)

Lemonade Stand

Set up a virtual lemonade stand and learn about profit, loss, supply, demand, price, and what it takes to run a small business. In this computer simulation, your challenge is to stay in business as you make daily decisions based on certain information such as cost of lemons, weather forecast, and local news. You’ll calculate costs, use probability to predict outcomes, estimate profits/loses, and then see the results of your decisions. Discover that running a successful enterprise depends on making choices about your available resources, and that good decisions involve anticipating demand and calculating your costs. (8-adult)

Quick Change (You’re The Cashier)

At this giant “cash register,” become a check-out clerk and sharpen your computational skills as you try to make change for customers in a virtual market. In this computer simulation, virtual customers initiate purchases and you are challenged to make change by pressing the coin and currency buttons in your cash register drawer. If you are correct, you hear a “ka-ching” sound; if not, you see what the proper change should be. Discover that math is useful in daily life, especially when dealing with money, and that it can even be fun! (7-adult)

Stock Market

Test your skills as an investor and see how well you play the market! Learn how buyers and sellers interact in the stock market through a 3-minute computer simulation set up on four networked computers to allow for multiple players. By reading the profiles of four fictional companies, you can create an investment strategy and follow the market through 12 months of trading. Begin with \$10,000, choose high or low risk strategies, and proceed to buy and sell stocks. Watch for breaking news flashes about the various companies and determine if the new information affects your holdings. See how the actions of your fellow investors as well as other events, from natural disasters to company mergers, impact the rise and fall of the stock market on a real-time graph display. You decide if and when to cash out, and receive feedback on your profits, losses, and general performance of your portfolio. Learn how markets establish prices, what causes market fluctuation, and that when you buy a stock you own a piece of a company! (12-adult)

DOLLARS AND SENSE

Discover strategies for making sound economic decisions in the context of everyday life utilizing such math skills and concepts as estimation, calculation, and problem solving. Explore money management, learn the real cost of credit, make your own financial choices, and balance a household budget.

Balancing Your Budget

Consider economic choices and trade-offs as you try to balance your monthly household budget using weighted “expense” icons against a “fixed income” weight. Choose from a selection of familiar figures, such as a house to symbolize rent or a grocery bag to symbolize food bills, and place them on a large scale, opposite your income. You may have to make some tough decisions as you “weigh” your choices, trying to meet your “needs” (groceries, housing, clothing, transportation, health care, and education) and your “wants” (vacations, movies, savings, donations, eating out, toys, etc.). (5-adult)

Get Real

Living in the real world means making choices—about earning, spending, and saving money. Imagine you are living on your own for the first time. You’ve got a job and your own apartment. What choices will you make? Can you make it through a whole year and save enough money for a vacation trip? Find out how well you do on your own as you make decisions based on real-life scenarios in this computer simulation. Develop skills in economic decision-making as you compare alternatives, make choices, and experience the consequences of your actions in this engaging computer game. (12-adult)

The Real Cost of Credit

How much will you pay if you buy an item that costs \$1,000 using a credit card and make the minimum monthly payment? Find out by watching a ball whiz up a clear vertical air chute to indicate the total amount paid, including interest. Compare the consequences of different payment rate choices by placing your hand over the base of three other tubes and watching the balls form a graph in the air. Learn why paying “the minimum” can add a surprising amount to the original cost. (10-adult)

GLOBAL TRADE

Explore the interdependence of international trade and markets, and how wealth is distributed around the world. View a display of families and their possessions from around the world, and guess the mystery imports inside shipping crates

From Around the World

Can you guess the identities of the “mystery imports” inside five large crates stacked on a loading dock when given certain manufacturing clues? View the list of countries and resources that contributed to each product on the crate and see if you can predict what’s inside. Use a viewfinder to “x-ray” each crate, and uncover the mystery item! You’ll learn more about where it was produced, and how it was manufactured and shipped. Gain an understanding of the unexpected origins of everyday items and why nations trade. (8-adult)

Material World

Imagine if a photographer knocked on your door and asked to take a picture of your family in front of your house with everything you owned spread out in your front yard. What would your family’s photo look like? You can view just such a display of families and their possessions from around the world and discover how culture, values, and available resources affect a family’s economic decisions. Thought-provoking questions encourage you to take a closer look and explore the standard of living and distribution of wealth and resources throughout the world. (8-adult)