

MONEY MATTERS (LEVEL 2)

Description	The learner will explore the concept of money and understand how it evolved over time.		
Leading Question	Why do we value money?		
Total Time Required	5.5 hours over 5 days		
Supplies Required	 Pen, paper, scissors, color pencils (optional), ruler or solid item with straight edge, household items for pretend shop activity 		
Learning Outcomes	 Understanding of the differences between money and bartering, and the advantages of the former over the latter Understanding of supply and demand Understanding the concepts of producers and consumers in a market and their competing interests Understanding of a budget History of money and it's evolution 		
Previous Learning	Multiplication within 10.		

DAY 1

Today you will begin looking at what we do with money.

Suggested Duration	Activity and Description
10 minutes	 In this project, we will explore some of the functions of money and understand how it works. Reflect on these questions: what is money? What does it help us do? Then list 5-6 things you can do with money (e.g. buying things, paying for school, donating etc.) From the list, observe that there is always an exchange happening. We trade money for something else using coin or paper currency or electronic money (with cards). Think: can you think of using anything else to make these exchanges? Did you know that people always had a way of exchanging goods and services? We did not always use



	the same paper bills or any of the other means of exchange we now consider money.	
30 minutes	 Long before people started using paper bills, people were exchanging things with each other to meet their needs. For example, a shoemaker would exchange shoes with a farmer to get vegetables. This is called bartering or the barter system. Play the following game with your family to understand the barter system: Get at least 2 other players from your household or neighbors/friends Imagine that every human has three needs – food, clothing, and entertainment or education. On a sheet of paper, draw the following table 	
	Player Food Clothing Medicine Total points	
	Round one	
15 minutes	 Go around your house collecting 3-4 items (or more depending on the number of players). Make sure that the items you select have at least 2 that belong to the categories listed above and the rest are random items. Players will earn 2 points for food items, 1 for clothing and 0.5 for medicine. You can change this to your liking. Players will come up with a system for exchange. For example, since food items are worth more, two items of clothing can be exchanged for one item of food, and four medicine items can be exchanged for 1 food item etc. Players can come up with their own exchange system When the game starts, players will walk up to each other to try and trade the items they have for better ones or for ones they are missing. Try to convince players to give up their items in exchange for yours. Make sure that you trade with all players. After each round, enter in the table the items from each category that you ended up with at the end of the round Play at least three rounds of this game. The goal is to get everything that you need based on the categories listed above 	
10 11111111111111	 Finite of the product of the barter system by answering the following questions: Was it easy to convince others to trade their items for yours? Do you think life during the barter era was easy or hard? What do you think happened to people who owned too much of one item? What about those who had items that were not considered important? Imagine you were a barber during the barter era. Write a short essay on how you ensured that your family's needs are met. What are some challenges you might face? 	



10 minutes	• There is so much that money allows us to do. We can store our money for later use, we don't have to use it all up today because we don't have to worry that it will go bad or become unusable. Also, we can choose to spend only a part of our money to buy an item instead of giving up a huge item in exchange for a smaller one that we need. We cannot divide items into smaller parts, but we can spend less money or more money to get the exact size and quantity of items we need. Compare money to bartering, what are some
	things we can do with one that we cannot do with the other?

Money	Bartering
e.g. We can use it to buy anything	We can only get what we need if someone wants what we have to offer

Today you will learn about how money is used.

Suggested Duration	Activity and Description		
5 minutes	• Think of other items that are valuable and can be used as currency and write a list of 3-4 items. For example, gold.		
30 minutes	 Many things were used as money in the past. Try to use an item as money at a local grocery store: Take any item you are willing to give up in exchange for an item from a grocery store Visit the store with an adult Ask the shopkeeper if you can trade the item for something in the store. If he or she rejects your offer, see if you can trade it for something that is worth less. For example, see if you can exchange an umbrella for some candy Record your response and use it to answer the following question: "why is it difficult to use items as currency?" If you are unable to go to the grocery store, you can pretend that your classmates or family members are shopkeepers and role play the activity above. Isn't it interesting that we can work a lot better with paper or coin money than exchanging items, even though the items are more valuable than a piece of paper? 		
20 minutes	Create your own paper and/or coin money:		



	 On a piece of paper, cut out 30 rectangular or round shapes for your paper bills or coins. If you are creating paper bills, think about the currency denominations you will use – these are the numbers printed on paper money indicating their worth. In Qatar, for example, the currency denominations used are 1, 5, 10, 50, 100, and 500. On your rectangular cutouts, make 5 bills of each denomination, i.e. 5 ones, 5 fives, 5 tens etc. Design your currency by coloring it and drawing interesting things on it like important building in your country, the national animal etc. You can use actual paper money as an example. Get creative! Think of a catchy name for your currency! Some currency names are Rival, Dollar, Yen, Pound, Dinar, Rupee etc.
10 minutos	Numeracy activity:
10 11111111111	 Calculate the perimeter of one of your rectangular paper bills by adding the length of all the sides of the bill. Use a ruler or your finger or any other straight-edged object to measure the length. You can give one joint of your finger a value like 2 and use that to calculate the perimeter. Using multiplication, show how many coins you will have if you
	make 5 rows each consisting of 23 coins (i.e. each row will have 23 coins and there are 5 rows in total)
	- Calculate the radius and diameter of one of your coins. Start by folding the paper coin in half then draw a straight line where the fold line is, going from one edge of the circle to the other. This is the diameter. Half of this is the radius. What are the diameter and radius of your coin?

Today you will explore the concept of demand.

Suggested Duration	Activity and Description	
15 minutes	 You will set up a shop. Assemble a collection of items from your house and give each item a price according to what they are worth in real life. For example, candy can be worth \$3, a dress can be worth \$50, a book can be \$20 etc. If you are comfortable with decimals, use them Make sure that you have a selection of cheap and expensive items If the learner has already done the "Set Up your own Store" project, she or he can create items to sell using materials available at home, or even make juice or cookies/sandwiches to sell to their family members. In that case, learners will determine 	



	the total cost of the items by adding the cost of each ingredient that goes into making the item. For example, if she or he chooses to sell a cookie, the total price will be the price of the flour, butter, sugar, eggs, baking powder, baking soda, and chocolate chips.		
15 minutes	 Invite your family to the shop and give them money to spend. You can give "customers" different amounts to see how they will spend it and inform them that they have to spend all of it. Note: if you have more than one item of the same kind, display all of them and allow family members to take the item they buy. If you have only one item of the same kind, for example, only one dress, but many family members want it, allow them to buy it and take their money, but do not give it to anyone. Try to use items that you have plenty of such as fruits, candy, t-shirts, pens etc. 		
5 minutes	Create the following demand table in your notebook:		
	Item	Price	Number of people who bought it
	e.g. candy	\$3	4
10 minutes	 Reflection – write your reflections in your notebook: The number of people who bought an item (and those who want and can buy it, but couldn't because it ran out) is called the demand. What do you observe about your customers' demand for different items? Is there any relationship between demand and price? 		
15 minutes	 Try the activity aga of some or all items buying habits now? 	iin after announcing a sa s. What do you observe ?	ale and reducing the price about your customers'

Today you will understand the concept of supply.

Suggested Duration	Activity and Description
5 minutes	• People buying things in a store are called consumers , but the people making them are producers . As a consumer, you are spending your money, but as a producer, you are making money from the items you produce and sell. Do you think a consumer wants prices to be high or low? Why?
5 minutes	 Now think about a producer – would a producer want prices to be high or low? Of course, producers want to keep prices high to make



	more money from each item they sell. Think about the following items:		
	A shoe thatA juice bottl	can get you \$60 if you e that can get you \$2.	sell it.
15 minutes	 Write in your notebook a paragraph about which item you will produce more of and why. You can interview the shopkeeper to find out what they would rather sell more of. Of course, you will choose to produce more of the item that will get you more money, in this case, the shoe. 		
20 minutes	 Now go back to your demand table and create the opposite – a supply table. The learner will think of the quantities a producer would sell of the same items and enter them in the table. Remember, the higher the price, the more you want to sell of that item 		
	Item	Price	How many units of this item I would sell as a producer
	e.g. candy	\$3	2
	dress	\$50	5

Today you will understand the concept of a budget.

Suggested Duration	Activity and Description
5 minutes	• Ask your parent or family member who is working or used to work how they decided to spend the money they earned. It is important to also save and budget with money. A budget helps us understand how to organize our money so that we are spending it in the best way possible for us, and maybe even saving some.
20 minutes	 Create a monthly supply of essentials to understand how budgets work: Make a list of the 10 most important essential goods at home that are important to you. Give each of these items a price that reflects their real value that you would see in a store. You may ask members of your household or any adult if you are not sure, or even check for yourself at a nearby store or on the packaging the item came in Next, take some money from your currency notes, say \$100. This is your budget for the month



	 Subtract the total from the budget. Do you have more or less money than the total cost of the items you need? 					
10 minutes	• Repeat this with a higher budget of \$200. What difference do you notice? Are you able to save anything or do you want to purchase more items? Money saved is the amount that you have left over after you pay for everything that you need. Write your observations in your notebook.					
30 minutes	 Let's understand through a simple example how a budget is broken down: Your budget is made up of the cost of each item you purchase. Let's imagine that you spend your entire budget on only 2 items, apples and bananas. Can you write this as an equation? It would look something like: apples + bananas = budget Now let's imagine that you have a budget of \$50 and that the price of one banana is 5, while that of an apple is 2 How many bananas and apples can you buy with \$50? Try different combinations to find the right answer. You can 					
recreate the table below						
	Item	Price		Qua	ntity	Total
	Banana	ΦZ \$5	\$2 1 \$5 10 Total			$2 \times 1 = 2$
	Danana	Τc				2+50=52
	 In the example in the table above, the total is \$52, which is o budget we have set. Change the quantities and see if you ca exactly \$50! 					
20 minutes	Help your family put together a weekly or monthly budget of all expenses using the template below: Weekly budget					
	Item		Price		Quantity	lotal

ASSESSMENT CRITERIA

- Critical thinking displayed in thinking about bartering vs money
- Creativity in the design of the currency notes
- Accuracy of pricing shop items based on realistic prices
- Accuracy in performing mathematical tasks, especially mental math
- Critical thinking in weekly budget design



ADDITIONAL ENRICHMENT ACTIVITIES

- The learner can conduct pricing and other calculations using decimals
- Older learners can plot their demand and supply curves on a coordinate plane:
 - Create the following graph in your notebook and plot coordinates according to your demand table



- Source: http://www2.harpercollege.edu/mhealy/eco212i/lectures/s&d/s&d.htm
- The horizontal line called the x-axis will show the number of times family members bought the same item. This is the quantity of demand.
- The vertical line the y-axis represents the price of each item
- Example: in the example above, the table shows that the item priced at \$15 was purchased one time, while the item priced at \$12 was purchased two times. On the adjacent plot, this is shown by the top two points on the plot (1,15) and (2,12)
- The first number in (2, 12), which is 2, is the number on the x-axis, while the second number, 12, is the number on the y-axis. So, to plot this, you will construct a similar plot then place your finger on number 2 on the x-axis. Keeping your finger locked in this position without moving left or right, you will go up to the corresponding number on the y-axis, 12.
- (2,12) and (1,15) are called ordered pairs
- Construct the same graph in your notebook and plot your own demand table based on your family's demand for the items you sold them earlier
- Finally, draw a line passing through all the points in your graph. This is called the demand curve.

MODIFICIATIONS FOR SIMPLIFICATION

• The learner can skip the supply and demand activity.