MONEY MATTERS (LEVEL 3)

Description	The learner will explore the concept of money as a medium of exchange and understand how it evolved over time, how money is used as a medium of exchange and create their own money. We will also learn about the concepts of demand and supply as well as consumers and producers.
Leading Question	Why do we value money?
Total Time Required	6.3 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 history of money and its evolution Understanding of the differences between money trading 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 the uses of money and budgeting Enhancing learners' critical thinking and creativity skills Enhancing learners' presentation and communication skills
Previous Learning	Multiplication and division within 100.

DAY **1**

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

Suggested Duration	Activity	and Description		
10 minutes	unde Wha (e.g.,	is project, we will explo erstand how it works. Re t does it help us do? The , buying things, paying f ved when it happens. Le	flect on these questior en list 5-10 things you o or school, donating etc	ns: what is money? can do with money .) and the people
		Things you can do with money	Person involved 1	Person involved 2 (or more)



		r				1
		Buying t	things	Buyer or	r customer	Shopkeeper
	mone mone these Inter used collec - Ha - In - W • Resp • Did y servic alway	ey? Obser ey for som ey (with c e exchang view your to use to ct more ir as money what for that did po oonses giv ou know	ve that the nething else ards). Think es? parents/fa buy things nformation always exis ms did mor eople use in ren will inclu- that people that people did not alwa	re is always a e using coin of c: can you th mily member long ago. Yo sted? hey previoush the past to ude barter tr e always had ays have mor	an exchange l or paper curre ink of using a ers or neighbo u can use the y exist? buy/get the t rade, cattle, co a way of exch ney as we kno	you can do with happening. We trade ency or electronic nything else to make burs on what people following questions to chings they need? cowrie shells, salt etc. hanging goods and bw it today – we did not means of exchange we
30 minutes	th w	ings with ould exch	each other ange shoes	to meet the with a farm	eir needs. For er to get vege	ople were exchanging example, a shoemaker etables. This is called g game with your
		-		, he barter sys	-	,
	- Ge	et at least	2 other pla	ayers from yo	our household	d or neighbors/friends od, clothing, and
				create your raw the follo	own categor wing table	es.
		Player	Food	Clothing	Medicine	Total points
	- H		Round			
					1	
		L				
	2	L 2 3				



	 number of players). Mathat belong to the categoritems. Players will earn 2 point medicine. You can channed is more important than a system for exchange. two items of clothing careadicine items can be up with their own excharcreated. When the game starts, trade the items they hat Try to convince players Make sure that you trades. After each round, enter each category that you you have 4 medicine items they play at least three round. 	collecting 3-4 items (or more depending on th ke sure that the items you select have at least gories listed above and the rest are random ts for food items, 1 for clothing and 0.5 for ge this to your liking based on what you think the other. This will also help you come up wit For example, since food items are worth more an be exchanged for one item of food, and fou exchanged for 1 food item etc. Players can con ange system based on the scoring system players will walk up to each other to try and ve for better ones or for ones they are missing to give up their items in exchange for yours. de with all players. in the table the total points for the items fror ended up with at the end of the round e.g., if ems and you used the scoring system above, under the medicine category. ds of this game. The goal is to get everything the categories listed above.
15 minutes	 Reflect on the pros and confollowing questions: Was it easy to convince Do you think life during think happened to peorabout those who had it Imagine you were a bar 	ns of the barter system by answering the others to trade their items for yours? the barter era was easy or hard? What do you ole who owned too much of one item? What ems that were not considered important? ber during the barter era. Write a short essay at your family's needs are met. What are some
	· · · · · ·	e you were a barber during the barter era. v you ensured that your family's needs are me you might face?
	Compare money trading to	bartering, what are some things we can do
10 minutes	with one that we cannot d	o with the other? Ask an adult or parent in e coming up with the comparisons.



	e.g. We can use it to buy anything	We can only get what we need if someone wants what we have to
		offer
10 minutes		
	Present the comparison between mone family/parents for review and discussio	
	use, we don't have to use it all up today will go bad or become unusable. Also, v our money to buy an item instead of give	ving up a huge item in exchange for a
	smaller one that we need. We cannot d	livide items into smaller parts, but we

DAY **2**

Today, we will learn about how money is used. Before we had paper bills, we used other items as money. Some examples are seashells, weapons and salt.

items we need.

can spend less money or more money to get the exact size and quantity of

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 you 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 mone 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 rectangles for your paper bills and/or 30 round shapes for your coins. If you are creating paper bills, think about the currency denomination 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, 200 and 500. On your rectangular cutouts, make 5 bills of each denomination, i.e., 5 ones, 5 fives, 5 tens etc. On the circular cutouts, the learner will make 2 coins of each denomination. You can create coins that are 1, 2, 5, 10, 20 and 50 cents etc. Design your currency by coloring it and drawing interesting things on i like important buildings 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 Riyal, Dollar, Yen, Pound, Dinar, Rupee etc. Feel free to either use an already existing name or to come up with your own name for your currency.
10 minutes	 Numeracy activity: Calculate the area of one of your rectangular paper bills. Collectively, what is the area of all the paper bills combined? Hint: area of a rectangle = length x breadth If you created coins, what is the circumference and area of each coin? (Hint: area of a rectangle = length x breadth and circumference of a circle = 2πr and area of the circle = πr². Remember that π = 3.14)

DAY **3**

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
- You also 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 price of the times by finding the cost of each ingredient that goes into making the item and adding a markup of 10-30% of the total cost in order to ensure that they make some profit. For example, if she or he chooses to sell cookies, the total cost will be the price of the flour, butter, sugar, eggs, baking powder, baking soda, and chocolate chips and they compute the profit as 10-30% of the total cost depending on how much profit they want to make. See formula below:

Total cost = sum of all the costs of ingredients

If we want profit of 30% of the costs, then Profit = 30% x total cost or

Price =	Total cost	+	Profit
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15 minutes	 Invite your family to the shop and give them money from the money created on day 2 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. In real life, you should always receive the item you paid for, but we do not have an unlimited amount of the items we are using in this activity. You can pretend to give the item to the customers so more people can buy it, or put a piece of paper as a placeholder for the item to indicate that people can still purchase it from your store.
	 Try to use items that you have plenty of such as fruits, candy, t-shirts, pens etc.

	Item	ate the followir	Price	,	Number of people wh
	e.g. can	dv	\$3		bought it
	e.g. can	id y			
15 minutes	• Refl	ection – write	your reflecti	ons in your n	otebook:
				-	em (and those who want an
		•			t) is called the demand . ners' demand for different
		tems?			
10 minutes		s there any rela			nd and price? e and reducing the price of
10 minutes	-	, .		-	out your customers' buying
		its now?	,		, , , ,
10 minutes	_				
10 minutes			•		and plot coordinates
10 minutes			•		and plot coordinates the previous activity:
10 minutes		ording to your o	•		•
10 minutes		Ording to your o Quantity Demanded	own demand		•
10 minutes		ording to your o	own demand Price ^{\$15} 12		•
10 minutes	acco Price	Quantity Demanded per Month	own demand		•
10 minutes	acco	Quantity Demanded per	own demand Price ^{\$15} 12		•
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10 minutes	Price \$15 12 9 6	Quantity Demanded per Month 1 2 3	own demand Price \$15 12 9 6	d table from t	•
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10 minutes	acco Price \$15 12 9 6 3	Quantity Demanded per Month 1 2 3 5 7	own demand Price \$15 12 9 6 3 0	table from t	the previous activity:
To minutes	acco Price \$15 12 9 6 3	Quantity Demanded per Month 1 2 3 5 7	own demand Price \$15 12 9 6 3 0	table from t	the previous activity:
To minutes	Price \$15 12 9 6 3 Source:h m	Quantity Demanded per Month 1 2 3 5 7	own demand Price \$15 12 9 6 3 0	table from t	the previous activity:

- 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.
- Present the demand table and demand graph to your family/parents for review and discussion.

DAY **4**

Today you will understand the concept of supply.

Suggested Duration	Activity and Description
5 minutes	 People buying things in a store are called consumers and the people making the items sold in the store 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	 Assuming you are a producer – would a producer want prices to be high or low? Think about the following items: A shoe that can get you \$60 if you sell it. A juice bottle that can get you \$2.
	Which item will you sell more of and why?
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 the 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, as a producer, the
	higher the price, the more you want to sell of that item

ltem	Price	How many units of this item I would sell as a producer
e.g. candy	\$3	2
dress	\$50	5

15 minutes	• Plot supply in a similar plot to the demand graph you created yesterday
	using price as x-axis and quantity as y-axis.
15 minutes	 Reflect on some of the factors that affect supply and demand and list them in your notebook. Prompts:
	 What do you think makes people want an item less or more? In othe words, what affects demand? Think of an example from your own life where you stopped buying an item, or suddenly bought more of an item. What made you do this? Some reasons include change in taste preference, price change. Can you think of more? In contrast, if you decide to start selling an item, for example, homemade ice cream, what are some reasons you might start selling more or less? For example, if it becomes too expensive for you to bur milk because all the cows in your area are sick, then you might make less ice cream. Can you think of other reasons?
10 minutes	• The learner presents the supply table and supply graph to his or her family/parents for review and discussion.

Day 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	 Make a list importan in your he essential Give each would see adult if your on the pa Next, take your budg month Add the contract for the pa 	st of the 10 most t to you. You may pusehold if you an goods at your ho of these items a e in a store. You n bu are not sure, o ckaging the item e some money fro get or the total an tost of all the iten the total cost of a	important essential g ask members of you re not sure of the 10 me. price that reflects th nay ask members of y r even check for you came in om your currency not nount available to you ns you gathered or liss Il the items listed fro	eir real value that you your household or any rself at a nearby store tes, say \$100. This is bu to spend for the sted m the budget. Do you
10 minutes	 have more or less money than the total cost of the items you need? Repeat this with a higher budget of \$2000. What difference do you 			
30 minutes	notice? Are v items? Mone for everythin after they ha your parents Write your o Let's unders - Your budg imagine t bananas. like: apple - Now let's one bana	you able to save a ey saved is the an ng that you need. ave paid for every s, a piggy bank or bservations in yo tand through a sin get is made up of hat you spend yo Can you write th es + bananas = bu imagine that you na is 5, while tha	inything or do you w nount that you have One can save the mo thing they need in a in a bank account. ur notebook. mple example how a the cost of each iten ur entire budget on o is as an equation? It idget	ant to purchase more left over after you pay oney that is left over secure place like with budget is broken dow n you purchase. Let's only 2 items, apples ar would look something 0 and that the price o
	- Try different the table	ent combinations below	to find the right ans	wer. You can recreate
	Item	Price	Quantity	Total
	Apple	\$2	1	2 x 1 = 2
	Banana	\$5	10	5 x 10 = 50
		Total		2+ 50 = 52

budget we have set. Change the quantities and see if you can get exactly \$50!



10 minutes	 Optional/Advanced: Ca the equation below? 	n you represent	the budget in t	he example using
	·	of item 1 x qua	antity of item 1)	+ (price of item 2
	 Total Budget = (price of item 1 x quantity of item 1) + (price of item 2 x quantity of item 2) 			
	- Another way to writ	e is would be n(x) + p(y) = 50 w	here n = nrice x =
	quantity of item 1, y			
	- Substitute the symb			e actual numbers
	from our example an actually equal to 50.	nd see if the equ		
20 minutes	Help your family put to		or monthly buc	lget of all expense
	To do this, ask your par	ents for all the e	expenses they in	cur on a weekly c
	monthly basis of all expenses using the template below:			
	Weekly or monthly budget			
	Item	Price	Quantity	Total
10 minutes	Present the prepared budget to your family/parents for review and feedback. The family/parents will provide feedback and suggestions on how to improve the budget.			
20 minutes	Thinking through everything TWO of the following:	; you have learn	t over the past 4	days, take note c
	• What is the most im			
	What are you findin		-	
	What question would			er?
	 What is something y 	ou found intere	sting?	

ASSESSMENT CRITERIA

- Critical thinking displayed in thinking about bartering vs money
- Creativity in the design of the currency notes
- Accuracy of pricing shop items
- Accuracy in performing mathematical tasks, especially mental math
- Critical thinking in reflecting on factors affecting demand and supply
- Critical thinking in weekly budget design.



ADDITIONAL ENRICHMENT ACTIVITIES

- The learner can conduct pricing and other calculations using decimals
- The learner can explore different price scenarios and their implications on the budget what happens to your budget when prices of one good rise or fall?

MODIFICATIONS FOR SIMPLIFICATION

• The learner can skip the supply and demand activity.