

MONEY MATTERS

Ages 4-7 (Level 1)

| Description: | The learner will explore the concept of money and understand | | |
|------------------------------------|--|--|--|
| | how it evolved over time. | | |
| Leading question: | Why do we value money? | | |
| Age group: | 4-7 | | |
| Subjects: | Economics, Math | | |
| Total time required: | 4 hours over 4 days | | |
| Self-guided / Supervised activity: | High supervision | | |
| Resources required: | Paper, pens, color pencils (optional), household items such as | | |
| | food, clothing, toys etc. for pretend shop activity | | |

| Day | Time | Activity and Description | | | | |
|-----|---------------|--|--|--|--|--|
| 1 | 10 minutes | In this project, we will understand what money is and how it works. The learner will reflect on these questions: what is money? What does it help us do? | | | | |
| | | Learners will list 5 things you can do with money (e.g. buying things, paying for school, donating money to charity etc.) | | | | |
| | | From the list, the learner will observe that there is always an exchange happening. We trade money for something else using coin or paper currency or electronic money (with cards). The learner will think: can you think of using anything else to make these exchanges? Did you know that money always existed? We just didn't call it money and we didn't always have paper bills or any of the other ways 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. The learner will play the following game with his or her 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 Item 1 Item 2 | | | | |
| | | 1 2 | | | | |
| | | 3 | | | | |
| | | | | | | |

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| | 15 minutes | Go around your house collecting 2-4 items (or more depending on the number of players) When the game starts, players will walk up to each other to try and exchange the items they have with each other. Make sure that you trade with all players. After each round, write in the table the items that you ended up with at the end of the round. You can also draw them The learner will reflect on the pros and cons of the barter system by answering the following questions in his or her notebook: Was it easy to convince others to trade their items for yours? Do you think life during the barter era was easy or hard? Give reasons for your answer. |
|---|---------------|---|
| 2 | | Today, the learner will create his or her own currency! |
| | 10 minutes | The learner will think about five items he or she would buy if they had money and draw or list them. |
| | 30 | The learner will now create his or her own paper: |
| | minutes | On a piece of paper, cut out at least 10 rectangular shapes for your paper bills. You can also cut out other fun shapes! Think about the currency denominations you will use – these are the numbers printed on paper money indicating their worth. What numbers have you seen on paper bills before? In Qatar, for example, the currency denominations used are 1, 5, 10, 50, 100, and 500. On your rectangular cutouts, make at least 2 bills of some denominations, i.e. 2 ones, 2 fives, 2 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! |
| | 5 minutes | The learner will reflect: Can you purchase any of the items from your list using this money? You can ask your parents how much the items are worth Do you need more or less money? |
| | 15 minutes | The learner will try to earn money by helping her or his parents with housework: The learner can help with making beds, cleaning tables and floors, washing dishes etc. Parents can pay learners depending on the difficulty of the chore At the end of the day or week, the learner will calculate how much money she or he has made The learner will think about what items they can now afford with the amount of money they made! |



| | 10 | Numeracy activity: | | | |
|---|---------------|--|----------|--|--|
| | minutes | After creating your own currency and writing numbers on them, add the numbers on the bills and find out the total amount of money you have Arrange the paper bills or coins in ascending and descending order | | | |
| 3 | | Today, the learner will create her or his own coins and understand how coins and paper bills are related! | | | |
| | 30 minutes | The learner will reflect on the types of coins she or her has seen and draw them, writing their value next to them. She or he can ask their parents for coins they have and visit a shopkeeper with a parent to see the different kinds of coins. An example has been done below: | | | |
| | | Coin | Value | | |
| | | Euro cents | 20 cents | | |
| | | CENT Source: <u>CC BY-SA</u> | | | |
| | | | | | |
| | | | | | |
| | | At the grocery store or corner shop, the learner will ask the shopkeeper what she or | | | |
| | | he can buy with coins. | | | |
| | | The learner will notice that coins have a very small value and they can only be used to buy small or cheap items. | | | |
| | 30 minutes | The learner will understand the relationship between coins and bank notes: The learner will cut out 10 round shapes (or other fun shapes) to make som coins The learner will make 2 coins of each denomination of any currency of his cher choice. The denominations of the Euro, for example, are 1, 2, 5, 10, 20 | | | |
| | | her choice. The denominations of the Euro, for example, are 1, 2, 5, 10, 20 and 50 cent, €1 and €2. Even 1 and 2 Euros are available only as coins. Now, the learner will try to add as many coins as he or she can to get one dollar, Euro or other currency. Younger learners can simply add or subtract the values of any coins of their choice. | | | |



| 4 | Γ | The second se |
|---------------|---------------|--|
| 4 | | Today, the learner will have a shopping party with his or her family! |
| 20 minutes | | The learner will create his or her own coins! First, the learner will decide on the denominations of their currency. Second, he or she will make at least 2 cutouts per denomination and write the values of the coins on each cutout Third, he or she will give the coins a creative name! |
| | 20 minutes | Now, the learner will agree with his or her family members on items they are willing to sell for the shopping party. The learner can even make his or her own items like birthday cards, cookies, juice etc. and sell them. Each household member will gather their items just like they did on day 1, but this time, they will use the money and coins created by the learner to "purchase" these items. Everyone must think of a price for their items before the start of the party. |
| | 20 minutes | (Optional) Finally, the learner will think of how she or he can actually start a business to make money to buy some items like candy, stationery for school etc. when they are a little older: The learner will reflect on their interests – e.g. singing, cooking, coloring They will then reflect on different opportunities like setting up a lemonade stand, selling artwork, walking neighbors' dogs etc. The learner will illustrate their business by drawing themselves doing these activities The learner will also think of their future aspiration and how they want to make money when they grow up and illustrate this through a creative drawing The learner will share all their drawings with their family and discuss what they would do with the money they earn from this business |
| Asses | sment | - Critical thinking displayed in thinking about bartering vs money |
| Criter | ria: | - Creativity in the design of the currency notes and coins |
| | | - Accuracy of pricing shop items |
| | | - Accuracy in performing mathematical tasks, especially mental math |
| | | Critical thinking and creativity in enterprising/money making plan |

| Learning outcomes: | Understanding of the differences between money and bartering, and the advantages of the former over the latter Understanding of the uses of money | | |
|-----------------------------------|--|--|--|
| | - Understanding the different denominations of currency | | |
| Required previous learning: | Addition and subtraction within 100 | | |
| Inspiration: | n/a | | |
| Additional enrichment activities: | The learner can practice subtraction using larger values of the paper and coin money | | |
| Modifications for simplification: | The learner can skip coins and denominations | | |



Ages 8 to 10 (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? | |
| Age group: | 8-10 | |
| Subjects: | Economics, mathematics | |
| Total time required: | 5.5 hours over 5 days | |
| Self-guided / Supervised activity: | Medium supervision | |
| Resources required: | Pen, paper, scissors, color pencils (optional), ruler or solid item | |
| | with straight edge, household items for pretend shop activity | |

| Day | Time | Activity and Description | | | | | |
|-----|---------------|---|--|--|--|--|--|
| 1 | 10 minutes | In this project, we will explore some of the functions of money and understand how it works. The learner will reflect on these questions: what is money? What does it help us do? The learner will then list 5-6 things you can do with money (e.g. buying things, paying for school, donating etc.) | | | | | |
| | | From the list, the learner will observe that there is always an exchange happening. We trade money for something else using coin or paper currency or electronic money (with cards). The learner will 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 have money as we know it today – we did not always use the same paper bills or any of the other means of exchange we now consider money. | | | | | |
| | 35 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. The learner will play the following game with his or her 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 medicine. You can also create your own categories On a sheet of paper, draw the following table | | | | | |
| | | Player Food Clothing Medicine Total points | | | | | |
| | | Round one | | | | | |
| | | 1 | | | | | |
| | | 2 3 | | | | | |
| | | | | | | | |
| | | • 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. | | | | | |



| | 15 minutes 10 minutes | You can change this to your liki Players will come up with a syssitems are worth more, two iter of food, and four medicine item Players can come up with their When the game starts, players the items they have for better of convince players to give up the that you trade with all players. After each round, enter in the the ended up with at the end of the Play at least three rounds of the need based on the categories lite. The learner will reflect on the pros and following questions in his or her notebod. Was it easy to convince others Do you think life during the bar happened to people who owned who had items that were not convince that you rfamily's you might face? There is so much that money allows us we don't have to use it all up today bed bad or become unusable. Also, we can buy an item instead of giving up a huge need. We cannot divide items into sma more money to get the exact size and co bartering, what are some things we car other? | tem for exchange. For example, since food ins of clothing can be exchanged for one item ins can be exchanged for 1 food item etc. own exchange system will walk up to each other to try and trade ones or for ones they are missing. Try to ir items in exchange for yours. Make sure table the items from each category that you e round is game. The goal is to get everything that you isted above cons of the barter system by answering the bok: to trade their items for yours? ter era was easy or hard? What do you think ed too much of one item? What about those onsidered important? ing the barter era. Write a short essay on how needs are met. What are some challenges to do. We can store our money for later use, cause we don't have to worry that it will go choose to spend only a part of our money to item in exchange for a smaller one that we ller parts, but we can spend less money or yuantity of items we need. Compare money to in do with one that we cannot do with the <u>Bartering</u> |
|---------|--------------------------------|---|--|
| | | Money e.g. We can use it to buy anything | Bartering We can only get what we need if someone wants what we have to offer |
| 2 | | | is used. Before we had paper bills, we used |
| | | other items as money. Some examples: Seashells Weapons Salt | |
| FΔΔ \λ/ | elcomes fe | edback on its projects in order to improv | e please use this link: 6 |



| 5 minutes | The learner will 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. The learner will 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 his or her 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 | The learner will now create his or her 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 Riyal, Dollar, Yen, Pound, Dinar, Rupee etc. |
| 10 minutes | Numeracy activity: 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 |



| | - | | This is the diameter. Half of this is th | | |
|---|--|---|---|--|--|
| | | t are the diameter and r | • | | |
| | Today, the learner will explore the concept of demand. | | | | |
| 15 | The learner will set | up a shop: | | | |
| minutes | 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 If the learner has already done the "Set Up your own Store" he can create items to sell using materials available at home, juice or cookies/sandwiches to sell to their family members. learners will determine the total cost of the items by adding ingredient that goes into making the item. For example, if sh to sell a cookie, the total price will be the price of the flour, be eggs, baking powder, baking soda, and chocolate chips. | | | | | |
| 15 | | | | | |
| minutes | | - | e shop and give them money to sper mounts to see how they will spend i | | |
| | The reamer can give | at they have to spend all | | | |
| | | | | | |
| | family members to t kind, for example, o buy it and take their | ake the item they buy. I nly one dress, but many | same kind, display all of them and a f you have only one item of the same family members want it, allow them it to anyone. Try to use items that y pens etc. | | |
| 5 minutes | family members to t kind, for example, o buy it and take their have plenty of such The learner will crea | ake the item they buy. I nly one dress, but many money, but do not give as fruits, candy, t-shirts, | f you have only one item of the same family members want it, allow them it to anyone. Try to use items that y | | |
| | family members to t kind, for example, o buy it and take their have plenty of such The learner will crea | ake the item they buy. I nly one dress, but many money, but do not give as fruits, candy, t-shirts, ate the following demand Price | f you have only one item of the same family members want it, allow them it to anyone. Try to use items that y pens etc. | | |
| | family members to t kind, for example, o buy it and take their have plenty of such The learner will crea | ake the item they buy. I nly one dress, but many money, but do not give as fruits, candy, t-shirts, ate the following demand | f you have only one item of the same family members want it, allow them it to anyone. Try to use items that y pens etc. d table in her or his notebook: Number of people who | | |
| | family members to t kind, for example, o buy it and take their have plenty of such The learner will crea | ake the item they buy. I nly one dress, but many money, but do not give as fruits, candy, t-shirts, ate the following demand Price | f you have only one item of the same family members want it, allow them it to anyone. Try to use items that y pens etc. d table in her or his notebook: Number of people who | | |
| | family members to t kind, for example, o buy it and take their have plenty of such The learner will creat Item e.g. candy Reflection – write yo • The number buy it, but c • What do you | ake the item they buy. I nly one dress, but many money, but do not give as fruits, candy, t-shirts, ate the following demand Price \$3 bur reflections on the fol of people who bought a ouldn't because it ran ou | f you have only one item of the same family members want it, allow them it to anyone. Try to use items that y pens etc. d table in her or his notebook: Number of people who bought it 4 lowing in your notebook: an item (and those who want and ca ut) is called the demand . stomers' demand for different items | | |



| | | [_ · · · | | | | |
|---|--|--|---|---|-------|--|
| 4 | | Today, the learner will understand the concept of supply. | | | | |
| | 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 that can get you \$60 if you sell it A juice bottle that can get you \$2 | | | | |
| | 15 minutes | | why. He or she can eve | a paragraph about which item they en interview the shopkeeper to find | | |
| | | Of course, you will ch money, in this case, t | | of the item that will get you more | | |
| | 20 minutes Now, go back to your demand table and create the opposite – a supply learner will think of the quantities a producer would sell of the same it them in the table. Remember, the higher the price, the more you want item | | | | enter | |
| | | Item | Price | How many units of this item I would sell as a producer | | |
| | | e.g. candy | \$3 | 2 | | |
| | | dress | \$50 | 5 | | |
| | | | | | | |
| 5 | | Today the learner wil | I understand the conce | pt of a budget. | | |
| | 5 Ask the parent or family member who is working or used to work how th minutes to spend the money they earned. It is important to also save and budget money. A budget helps us understand how to organize our money so that spending it in the best way possible for us, and maybe even saving some | | | | | |
| | 20 minutes | Work: Make a list or important to Give each of see in a store | f the 10 most importan you. these items a price that y. You may ask member | essentials to understand how budge t essential goods at home that are t reflects their real value that you w s of your household or any adult if self at a nearby store or on the | vould | |



| | budgeAdd thSubtra | Next, take some money from your currency notes, say \$100. This is your budget for the month Add the cost of all the items you gathered or listed Subtract the total from the budget. Do you have more or less money than the total cost of the items you need? | | | | | |
|-----------|--|---|------------|------------|------------|-------------|--|
| 10 min | utes able to save an amount that y | 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 min | utes • Your b that you you wi banan • Now le banan • How n • Try dif | 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 | | | | | i's imagine hanas. Can s + e of one |
| | Item | Price | | Quantity | | Total | |
| | Apple | \$2 | | 1 | | 2 x 1 = 2 | |
| | Banana | \$5 | | 10 | | 5 x 10 = 50 | |
| | | Tot | al | | | 2+ 50 = 52 | |
| 20 min | set. Change th | In the example in the table above, the total is \$52, which is over the budget we have set. Change the quantities and see if you can get exactly \$50! The learner will help his or her family put together a weekly or monthly budget of a expenses using the template below: | | | | | |
| | | | | | ekly budg | | |
| | Item | | Price | Qu | antity | Total | |
| | | | | | | | |
| | | | | | | | |
| | | | | | | | |
| Assessmen | t - Critical thinki | ng displayed in | thinking a | hout harte | pring vs m | onev | |
| Criteria: | | the design of the | - | | g v3 III | Uney | |
| circeria. | | ricing shop iten | | | prices | | |
| | | erforming math | | | • | ntal math | |
| | | ng in weekly bu | | • | , | | |

EAA welcomes feedback on its projects in order to improve, please use this link: <u>https://forms.gle/LGAP9k17fMyJrKJN7</u>



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|--|--|--|--|--|--|--|--|
| 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 | | | | | | |
| Descriptions to a | | | | | | | |
| Required previous | Multiplication within 10 | | | | | | |
| learning: | | | | | | | |
| Inspiration: | n/a | | | | | | |
| Additional enrichment | - The learner can conduct pricing and other calculations using decimals | | | | | | |
| activities: | | | | | | | |
| activities: | - 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 | | | | | | |
| | | | | | | | |
| | ¢46 | | | | | | |
| | Quantity Price ^{\$15} | | | | | | |
| | Demanded | | | | | | |
| | per 12 | | | | | | |
| | Price Month | | | | | | |
| | 9 9 | | | | | | |
| | \$15 1 | | | | | | |
| | | | | | | | |
| | 9 3 | | | | | | |
| | 6 5 3 | | | | | | |
| | | | | | | | |
| | | | | | | | |
| | 0 1 2 3 4 5 6 7 | | | | | | |
| | Quantity | | | | | | |
| | Source: | | | | | | |
| | http://www2.harpercollege.edu/mhealy/eco212i/lectures/s&d/s&d.htm | | | | | | |
| | | | | | | | |
| | The beging stalling colled the view will show the symphone of | | | | | | |
| | • 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 |
|-----------------------------------|--|
| Modifications for simplification: | The learner can skip the supply and demand activity |



Ages 11 to 14 (Level 3)

| Description: | The learner will explore the concept of money and understand | | |
|------------------------------------|---|--|--|
| | how it evolved over time. | | |
| Leading question: | Why do we value money? | | |
| Age group: | 11-14 | | |
| Subjects: | Economics, mathematics | | |
| Total time required: | 6.3 hours over 5 days | | |
| Self-guided / Supervised activity: | Low supervision | | |
| Resources required: | Pen, paper, scissors, color pencils (optional), ruler or solid item | | |
| | with straight edge, household items for pretend shop activity | | |

| Day | Time | Activity and Description | | | | | |
|-----|---------------|---|--|--|--|--|--|
| 1 | 10 minutes | In this project, we will explore some of the functions of money and understand how it works. The learner will reflect on these questions: what is money? What does it | | | | | |
| | minutes | help us do? The learner will then list 5-10 things you can do with money (e.g. buying | | | | | |
| | | things, paying for school, donating etc.) | | | | | |
| | | From the list, the learner will observe that there is always an exchange happening. We trade money for something else using coin or paper currency or electronic noney (with cards). The learner will think: can you think of using anything else to nake these exchanges? Did you know that people always had a way of exchanging | | | | | |
| | | goods and services? We didn't always have money as we know it today – we didn't always use the same paper bills or any of the other means of exchange we now consider money | | | | | |
| | 30 | Long before people started using paper bills, people were exchanging things with | | | | | |
| | minutes | 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. The learner will play the following game with his or her 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 medicine. | | | | | |
| | | You can also create your own categories On a sheet of paper, draw the following table | | | | | |
| | | • On a sheet of paper, draw the following table | | | | | |
| | | Player Food Clothing Medicine Total points | | | | | |
| | | Round one | | | | | |
| | | | | | | | |
| | | 2 3 | | | | | |
| | | | | | | | |
| | | • 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. | | | | | |



| | 15 minutes | You can change this to your likit Players will come up with a syssitems are worth more, two iter of food, and four medicine iter Players can come up with their When the game starts, players the items they have for better convince players to give up the that you trade with all players. After each round, enter in the free ended up with at the end of the Play at least three rounds of the need based on the categories I The learner will reflect on the pros and following questions in his or her notebood. Was it easy to convince others Do you think life during the base happened to people who owned who had items that were not convince others that you were a barber dur you ensured that your family's you might face? There is so much that money allows us we don't have to use it all up today bed bad or become unusable. Also, we can buy an item instead of giving up a huge need. We cannot divide items into smarmore money to get the exact size and convince the province other size and convince the exact size and convince the province other size and convince the province the province the province the province the | tem for exchange. For example, since food ms of clothing can be exchanged for one item ms can be exchanged for 1 food item etc. Town exchange system will walk up to each other to try and trade ones or for ones they are missing. Try to sir items in exchange for yours. Make sure table the items from each category that you e round is game. The goal is to get everything that you isted above cons of the barter system by answering the pok: to trade their items for yours? rter era was easy or hard? What do you think ed too much of one item? What about those |
|---|---------------|--|---|
| 2 | | Today, we will learn about how money other items as money. Some examples | is used. Before we had paper bills, we used |
| | | Seashells Weapons Salt edback on its projects in order to improv | |



| 5 minutes 30 minutes | The learner will think of other items that are valuable and can be used as currency and write a list of 3-4 items. For example, gold. Many things were used as money in the past. The learner will 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 his or her 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 | The learner will now create his or her 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! |
| 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? If you created coins, what is the circumference of each coin? (Hint: area of a rectangle = length x breadth and circumference = 2πr. Remember that π = 3.14) |
| 3 | Today, the learner will explore the concept of demand. |
| 15 minutes | The learner 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 | | ustomers" different | he shop and give them money to spend. amounts to see how they will spend it it. | | | |
| | family members to take kind, for example, only buy it and take their mo | 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 | The learner will create | the following dema | nd table in her or his notebook: | | | |
| | ltem | Price | Number of people who bought it | | | |
| | e.g. candy | \$3 | 4 | | | |
| | | | | | | |
| 10 minutes | Reflection – write your reflections on the following 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 | The learner will try the activity again after announcing a sale and reducing the price of some or all items. What do you observe about your customers' buying habits now? | | | | | |
| 10 minutes | Create the following grademand table | aph in your notebo | ok and plot coordinates according to your | | | |



| | Quantity Price \$15 1 per 12 2 9 3 6 5 3 7 | | | | |
|-----------------------------------|---|--|--|--|--|
| | 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 | | | | |
| 4 5 minutes 5 minutes | Today, the learner will understand the concept of supply. People paying for items in a store are called consumers, but the people making the items are producers. As a consumer, you are spending your money, but as a producer, you are making money from the items you produce. Do you think a consumer wants prices to be high or low? Why? 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 that can get you \$60 if you sell it A juice bottle that can get you \$2 | | | | |



| | 15 minutes | The learner will write in his or her notebook a paragraph about which item they will produce more of and why. He or she can even 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 | | |
| | | o g candu | \$3 | 2 | | |
| | | e.g. candy | | | | |
| | | Dress | \$50 | 5 | | |
| | 15 minutes 15 minutes | The learner will then plot supply in a similar plot to the demand graph he or she created yesterday using price as x-axis and quantity as y-axis. The learner will reflect on some of the factors that affect supply and demand, and list them in his or her notebook. Prompts: What do you think make people want an item less or more? In other 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 or 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 buy milk because all the cows in your area are sick, then you might make less ice cream. Can you | | | | |
| 5 | | Today the learner will und | lerstand the concept of a b | pudget. | | |
| | 5 minutes | Ask your parent or family member who is working or used to work how they decided to spend the money they earned. Another cool thing that money allows us to do is to save and budget. 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 | The learner will create a m work: | nonthly supply of essential | ls to understand how budgets | | |



| 10 | 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 Add the cost of all the items you gathered or listed Subtract the total from the budget. Do you have more or less money than the total cost of the items you need? | | | | | |
|---------------|--|--|--|---|--|--|
| minutes | able to save anyt | hing or do you y that is left ove | want to purchase mor er after you pay for ev | e items? Money saved is the erything that you need. Write | | |
| 30 minutes | Your bud that you you write bananas Now let's banana is How mar Try differ | that you spend your entire budget on only 2 items, apples and bananas. Car 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? | | | | |
| | Item | Price | Quantity | Total | | |
| | Apple | \$2 | 1 | 2 x 1 = 2 | | |
| | | \$5 | 10 | | | |
| | Banana | رچ ا Total | 10 | 5 x 10 = 50 2+ 50 = 52 | | |
| 10 minutes | set. Change the c Optional/advance equation below? • Budget = item 2) • Another quantity • Substitut | uantities and s ed: Can you rep (price of item : way to write is of item 1, y = q e the symbols i uple and see if t | ee if you can get exact present the budget in t L x quantity of item 1) would be p(x) + p(y) = uantity of item 2 n the equation above | ich is over the budget we have tly \$50! the example using the + (price of item 2 x quantity of 50, where p = price, x = for the actual numbers from t, i.e. if p(x) + p(y) is actually | | |



| 20 mi |) inutes | The learner will he expenses using th | • | | ogether a weekly | or monthly budg | et of all |
|-----------|---------------|---------------------------------------|-----------------|---------------|-------------------|-----------------|-----------|
| | Weekly budget | | | | | | |
| | | Item | F | Price | Quantity | Total | |
| | | | | | | | _ |
| | | | | | | | _ |
| | | | | | | | |
| | | | | | | | |
| Assessme | ont | - Critical thinking | displayed in th | ninking abou | it hartering vs m | onev | |
| Criteria: | | - Creativity in the | • • | - | - | oney | |
| | | - Accuracy of prici | • | • | | | |
| | | - Accuracy in perfo | orming mathe | matical task | s, especially mer | ntal math | |
| | | - Critical thinking i | in reflecting o | n factors aff | ecting demand a | nd supply | |
| | | - Critical thinking i | n weekly bud | get design | | | |

| Learning outcomes: | Understanding of the history of money and its evolution 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 |
|-----------------------------------|--|
| Descripted exercises losuring: | - Understanding of budgeting |
| Required previous learning: | Multiplication within 10 |
| Inspiration: | n/a |
| 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 |