Grade Level/Course: Grade 2

Lesson/Unit Plan Name: Show me the money!

Rationale/Lesson Abstract: Students will be able to solve word problems involving money.

Timeframe: 2 days

Common Core Standard(s):

2.MD.8

Solve word problems involving dollar bills, quarters, dimes, nickels, and pennies, using $ and ¢ symbols appropriately. *Example: If you have 2 dimes and 3 pennies, how many cents do you have?*

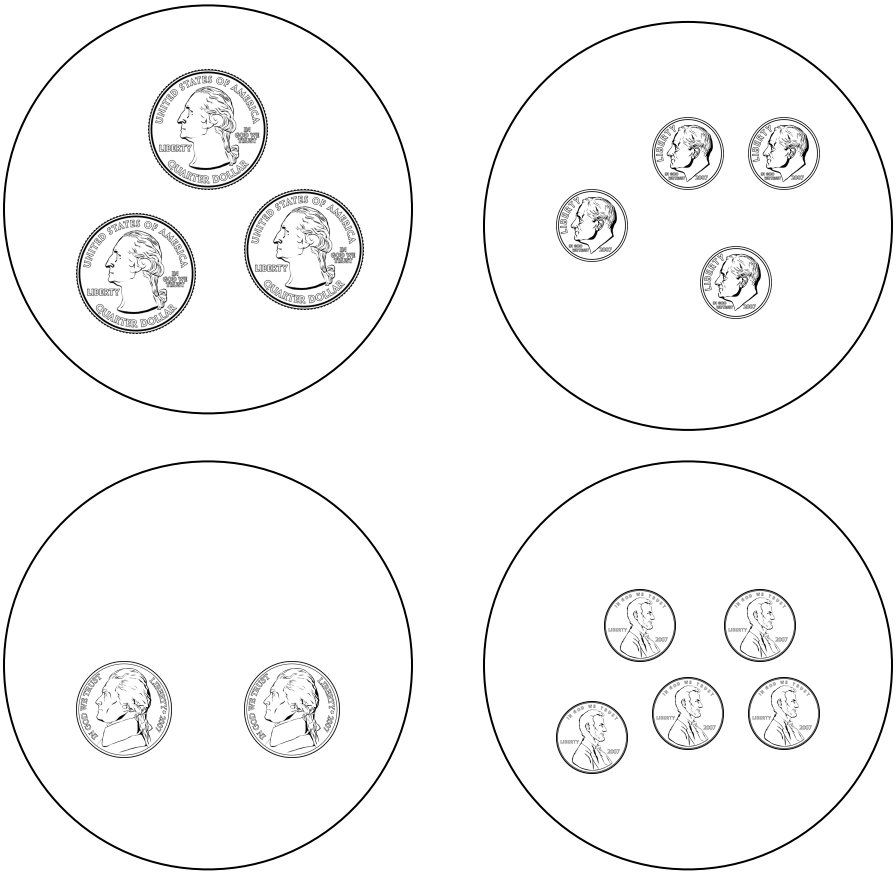
Materials/Resources:

Plastic or paper money, sorting template, bar model template, number line template, hundreds chart template

Day 1:

Students sort money to demonstrate their understanding of coin names and values. Students also place coins in order from greatest to least.

Once students have sorted coins, have them count them with their partner. Ask students "How do you find the total value of a group of dimes, nickels, and pennies. Students will count, by 25s (if they are able to do so), 10s, 5s and 1s. Ask students which group has the most coins. Then ask them which group has the most value. Ask "If you have more coins, does that mean you have a larger value?" Talk about why you may not have a larger value just because you have more coins.



After students sort coins in order from greatest to least. Ask, "How do you find the value of a total group of coins?" Have students demonstrate what they know about counting a group of coins.

Show students how values of money can be placed in a bar model. This will help students see that two quarters equal 50 cents. They are also able to see that 10 dimes equal one dollar and 20 nickels equal one dollar. In later grades, this visual will help them with fractions, decimals and percents too.

$1.00 100¢			
$0.50 50¢		$0.50 50¢	
$0.25 25¢	$0.25 25¢	$0.25 25¢	$0.25 25¢

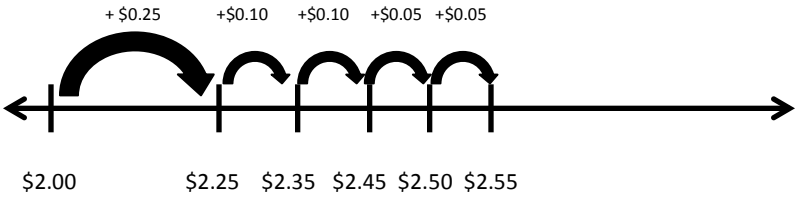
$1.00 100¢									
$0.10	$0.10	$0.10	$0.10	$0.10	$0.10	$0.10	$0.10	$0.10	$0.10
$0.05 $0.05	$0.05 $0.05	$0.05 $0.05	$0.05 $0.05	$0.05 $0.05	$0.05 $0.05	$0.05 $0.05	$0.05 $0.05	$0.05 $0.05	$0.05 $0.05

Day 2:

Students practice counting by 5s, 10s, and 25s. Students count by 5s, 10s and 25s on the number line and hundreds chart. Then have students practice counting with coins on the number line and hundreds chart.

Example 1: Phil gave 2 dimes, 2 nickels, 1 quarter and 2 dollar bills to the clerk for a puzzle. How much money did Phil give the clerk? [$2.55]

Place money in order from greatest to least value. Have students start with dollars. Place the $2 on the number line and count up by adding the coins.



Now use the hundreds chart to count the coins. Place the first quarter at the number 25 and continue to count on. Stack the money as you go to show how the coins and value increase.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

$2.00

+ $0.25

+ $0.10

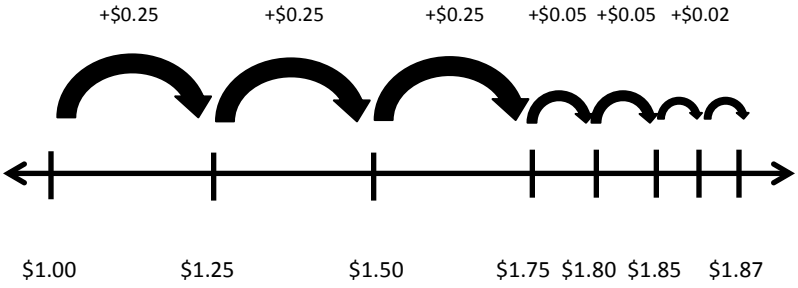
+ $0.10

+ $0.05

+ $0.05

= $2.55

You Try 1: Kim used 3 quarters, 2 nickels, 2 pennies and one dollar bill to buy a book. How much money did Kim use? [$1.87]



1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

$1.00
+ $0.25
+ $0.25
+ $0.25
+ $0.05
+ $0.05
+ $0.02
= $1.87

Example 2: Gabriella has 2 dollar bills, 2 quarters, and 6 dimes. How much money does she have? [$3.10]

You Try 2: Kathy used 2 quarters, 1 nickel, 1 dime and 3 dollar bills to buy a toy. How much money did Kathy use to buy the toy? [$3.65]

You Try 3: Jake gave the clerk 3 quarters, 2 nickels, 2 dimes, and 3 pennies. How much money did he give to the clerk? [$1.08]