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| <b>October 9<sup>th</sup>, 2023</b>  |
| <b>Money / 4<sup>th</sup> grade EC</b>   |
| <b>Curricular Standard</b><br>NC.1.MD.5 Identify quarters, dimes, and nickels and relate their values to pennies.<br>NC.2.MD.8 Solve word problems involving:<br>• Quarters, dimes, nickels, and pennies within 99¢, using ¢ symbols appropriately.  |
| <b>Lesson Objectives</b><br><br>1. Students will be able to identify quarters, dimes, and nickels and relate their values to pennies.<br><br>2. Students will be able to solve word problems involving quarters, dimes, nickels, and pennies within 99¢, using ¢ symbols appropriately.<br><br>3. Students will be able to add like coins through skip counting.<br><br>4. Students will be able to solve word problems involving like coins plus pennies.<br><br>5. Students will understand the value of quarters and quarter of a dollar (25¢).<br><br>Prerequisite Knowledge:<br><br>- Students should have basic understanding of counting, addition, and addition with carrying.<br><br>- Students should be able to identify and count pennies.   |
| <b>PUBLISHED Flippity link and Link to Spreadsheet for Editing</b><br>Identifying Coins:<br>Spreadsheet: <a href="https://docs.google.com/spreadsheets/d/e/2PACX-1vRyL-xC65flugLLT-HLV6EndpuI5xKfA5bymoJ6OKMV0x5Oo3DZbaZEafyMKYk5FJ_bE9UzK3y5IWAz/pubhtml">https://docs.google.com/spreadsheets/d/e/2PACX-1vRyL-xC65flugLLT-HLV6EndpuI5xKfA5bymoJ6OKMV0x5Oo3DZbaZEafyMKYk5FJ_bE9UzK3y5IWAz/pubhtml</a><br>Flippity: <a href="https://www.flippity.net/mg.php?k=1rqA_IWnFRnTfS2p3nPCwShrdD_bPjSiL3JRhCua9Xoc">https://www.flippity.net/mg.php?k=1rqA_IWnFRnTfS2p3nPCwShrdD_bPjSiL3JRhCua9Xoc</a><br>Counting Like Coins:<br>Spreadsheet: <a href="https://docs.google.com/spreadsheets/d/e/2PACX-1vRi8XfzqWsAt5AHwyxjvcQK1MZmeV1JmIN0NoRVeomGuhH_aticfk1K9bhh7GdyuGTvIFfv4LtrgYKd/pubhtml">https://docs.google.com/spreadsheets/d/e/2PACX-1vRi8XfzqWsAt5AHwyxjvcQK1MZmeV1JmIN0NoRVeomGuhH_aticfk1K9bhh7GdyuGTvIFfv4LtrgYKd/pubhtml</a><br>Flippity: <a href="https://www.flippity.net/ma.php?k=1ACNTuJqHqw3E-MsgfTszbv4hhnTiKFo3gJ3GmwwPrho">https://www.flippity.net/ma.php?k=1ACNTuJqHqw3E-MsgfTszbv4hhnTiKFo3gJ3GmwwPrho</a> |
| <b>Additional Materials</b><br>Materials Needed:<br><br>- Coins (quarters, dimes, nickels, pennies)<br><br>- Whiteboard or blackboard<br><br>- Markers or chalk  |

- Worksheets with word problems involving money
- Chart or visual representation of different coins and their values

## **Procedures**

### Introduction/Warm-up

#### 1. Warm-up/Review (5 minutes)

- Begin the lesson with a short review of what students already know about coins, specifically pennies.
- Ask questions such as: "What coins have we learned about so far?" and "What is the value of a penny?"
- Show visual representations of the different coins and ask students to identify them and their values.

### Lesson body/Direct Instruction:

#### 2. Introduction to Quarters, Dimes, and Nickels (10 minutes)

- Introduce the concept of quarters, dimes, and nickels. Explain that these coins have different values compared to pennies.
- Show visual representations of each coin and discuss their values:
- Quarter: 25¢ or  $\frac{1}{4}$  of a dollar
- Dime: 10¢ or  $\frac{1}{10}$  of a dollar
- Nickel: 5¢ or  $\frac{1}{20}$  of a dollar
- Model examples of skip counting by each coin. For example, count by quarters: 25, 50, 75, 100.

#### 3. Identifying Coins and Their Values (10 minutes)

- Distribute a variety of coins to each student or in small groups.
- Have students identify and sort the coins into piles based on their values (quarters, dimes, nickels, and pennies).
- Encourage students to discuss and explain their choices.

#### 4. Solving Word Problems (15 minutes)

- Distribute worksheets with word problems involving quarters, dimes, nickels, and pennies.
- Read each problem aloud and guide students through the process of solving them:

- Identify the given coins and their values in the problem.
- Determine the operation needed (addition, subtraction, or skip counting).
- Solve the problem step by step, using coins or drawing representations if needed.
- Walk around the classroom to provide assistance and check for understanding.

Guided Practice:

#### 5. Interactive Activities with Coins (10 minutes)

- Use coins to create interactive activities that reinforce the understanding of their values.
- For example, create a game where students have to exchange different combinations of coins to make a specific value (e.g., make 50¢ using quarters, dimes, nickels, and pennies).
- Encourage students to work in pairs or small groups to solve the activities.

Independent Practice:

#### 6. Wrap-up/Assessment (10 minutes)

- Review the concepts learned in the lesson by asking questions such as:
  - "What is the value of a quarter?"
  - "How many dimes make a dollar?"
  - "Can you skip count by nickels?"
- Provide additional examples or ask students to demonstrate their understanding through word problems or creating their own coin equations.
- Collect the worksheets to assess individual student understanding.

#### **Assessment**

Formative/Informal:

- Assess student understanding through observations during class discussions and activities.
- Ask students to explain their reasoning and strategies used to solve the word problems.
- If needed, provide individual or small group support or further instruction for students who may be struggling.

Summative/Formal:

- Check completed worksheets for correct solutions to word problems.

#### **Differentiation Strategies (EL learners, AIG, Struggling Readers, etc.)**

#### 7. Extension Activity (optional):

- For students who demonstrate advanced understanding, provide challenging word problems that involve different combinations of coins to make specific values.
- Encourage students to come up with their own word problems or scenarios involving money.