

#### Vertical Progression:

Kindergarten	<p><b>K.OA.A Understand addition as putting together and adding to, and understand subtraction as taking apart and taking from.</b></p> <ul style="list-style-type: none"> <li>○ <b>K.OA.A.2</b> Solve addition and subtraction word problems, and add and subtract within 10, e.g., by using objects or drawings to represent the problem.</li> </ul>
1 <sup>st</sup> Grade	<p><b>1.OA.A Represent and solve problems involving addition and subtraction.</b></p> <ul style="list-style-type: none"> <li>○ <b>1.OA.A.1</b> Use addition and subtraction within 20 to solve word problems involving situations of adding to, taking from, putting together, taking apart, and comparing, with unknowns in all positions, e.g., by using objects, drawings, and equations with a symbol for the unknown number to represent the problem.</li> </ul> <p><b>1.MD.B Tell and write time.</b></p> <ul style="list-style-type: none"> <li>○ <b>1.MD.B.3</b> Tell and write time in hours and half-hours using analog and digital clocks.</li> </ul>
2 <sup>nd</sup> Grade	<p><b>2.MD.C Work with time and money.</b></p> <ul style="list-style-type: none"> <li>○ <b>2.MD.C.7</b> Tell and write time from analog and digital clocks to the nearest five minutes, using a.m. and p.m.</li> <li>○ <b>2.MD.C.8</b> Solve word problems involving dollar bills, quarters, dimes, nickels, and pennies, using \$ and ¢ symbols appropriately. <i>Example: If you have 2 dimes and 3 pennies, how many cents do you have?</i></li> </ul>
3 <sup>rd</sup> Grade	<p><b>3.MD.A Solve problems involving measurement and estimation of intervals of time, liquid volumes, and masses of objects.</b></p> <ul style="list-style-type: none"> <li>○ <b>3.MD.A.1.</b> Tell and write time to the nearest minute and measure time intervals in minutes. Solve word problems involving addition and subtraction of time intervals in minutes, e.g., by representing the problem on a number line diagram.</li> </ul>

#### Students will demonstrate command of the ELG by:

- Using a.m. and p.m. when telling and writing time.
- Explaining the difference between a.m. and p.m.
- Telling and writing time to the nearest five minutes on digital and analog clocks.
- Drawing in the hands on an analog clock for a given time expressed to the nearest 5 minutes.
- Recognizing what operation is required to solve a word problem involving money.
- Writing the corresponding symbols (\$) and (¢) to show the appropriate amount of money.
- Solving a word problem with dollar bills, quarters, dimes, nickels, and pennies

#### Vocabulary

- analog clock
- cent (¢)
- digital clock
- dime
- dollar bill (\$)
- hour
- hour hand
- minute
- minute hand
- nickel
- o'clock
- quarter

#### Sample Instructional/Assessment Tasks:

##### 1) Standard(s): 2.MD.C.7

**Source:** Illustrative Mathematics

<https://www.illustrativemathematics.org/content-standards/2/MD/C/7/tasks/1069>

**Materials:**

- Sets of 3-6 "analog clock cards," enough for each student.
- Sets of 3-6 "digital clock cards," enough for each student.
- Paper and pencil.

**Actions:**

- Students work individually or in pairs so they can compare their orderings.
- Students should start with the analog clocks.
- They arrange their clocks in order of increasing time and then they can write the times in increasing order on their paper.
- Once they have arranged the first set, they can move onto the set of digital times.
- The teacher should be walking around at this time checking student progress.
- If students finish early, they can get another set of cards.
- The card sets attached to this task get increasingly difficult, so students who find the first sets easy will be challenged by other sets.

##### 2) Standard(s): 2.MD.C.8

**Source:** [www.k-5mathteachingresources.com/support-files/money-word-problems.pdf](http://www.k-5mathteachingresources.com/support-files/money-word-problems.pdf)

**Item Prompt:**

- I have 5 dimes, 3 nickels and 4 pennies. How much money do I have in all?
- Tom had 9 dimes. He bought an ice cream cone for 65 cents. How much money did Tom have left?
- Jan had one quarter, 3 dimes and 4 nickels in her coin purse. How much money did Jan have in her coin purse?

**Correct Answers:**

- You have 69¢.
- Tom has 25¢ left.
- Jan had 75¢ in her coin purse.