

## Unit Overview

**Instructor/Program:** Anna Webber

**Course/Setting:** Beginning Literacy class

<b>NRS or CCRS Level(s):</b> 5.NBT.7	<b>Unit Theme:</b> Currency	<b>Length (e.g., hours, days):</b> 2 hours
<p><b>Rationale for this Unit:</b> (Why is this unit important to my students?)</p> <p>Being able to add amounts of money is very important in our students' day-to-day life.</p> <p><b>Instructional Objective(s):</b></p> <p>Students will be able to add decimals using concrete models.</p>	<p><b>Focus:</b></p> <p><u><a href="#">CCR Standard(s):</a></u></p> <p><i>Primary Standard(s) (1-2 per lesson) :</i></p> <p>5.NBT.7</p> <p><i>Supporting Standard(s):</i></p> <p>1.NBT.4</p> <hr/> <p><u><a href="#">ACES TIF Skill(s):</a></u></p> <p>1.EC.a.c.e          1.LS.a          3.LS.a.c.d          2.CT.a-e          1.SM.c-e          1.Ns.a-c</p> <p><u><a href="#">Northstar Digital Literacy Standard(s):</a></u></p> <p>N/A</p> <hr/> <p><b>Additional Content Standards or Skills:</b> (e.g. career, science, social studies, etc.)</p> <p>Consumer literacy          Financial literacy          Customer service (careers)</p>	
<p><b>Coherence:</b></p> <p>Prerequisite or foundational content students need to succeed in the lesson:</p> <ul style="list-style-type: none"> <li>-Counting to 100</li> <li>-Adding whole numbers</li> <li>- Regrouping</li> </ul> <p>Description of how the content of the lesson is related to other content taught at the lesson's level:</p> <ul style="list-style-type: none"> <li>-Reading and writing whole numbers and decimals</li> <li>-Understand place value</li> </ul> <p>Description of how content connects to future learning:</p> <ul style="list-style-type: none"> <li>-Need to know addition to understand subtraction, multiplication, and division of decimals</li> <li>-Will help students to understand fractions in the future</li> </ul> <p><b>Components of Rigor:</b></p> <p><u>  X  </u> Conceptual Understanding <u>  X  </u> Procedural Skill and Fluency</p> <p><u>  X  </u> Application</p>		

<p><b>Standards for Mathematical Practice:</b> <i>Only select the 2-4 practices that are central to the lesson</i></p> <p><input type="checkbox"/> MP 1: <i>Make sense of problems and persevere in solving them</i></p> <p><input type="checkbox"/> MP 2: <i>Reason abstractly and quantitatively</i></p> <p><input checked="" type="checkbox"/> MP 3: <i>Construct viable arguments and critique the reasoning of others</i></p> <p><input type="checkbox"/> MP 4: <i>Model with mathematics</i></p>	<p><input checked="" type="checkbox"/> MP 5: <i>Use appropriate tools strategically</i></p> <p><input checked="" type="checkbox"/> MP 6: <i>Attend to precision</i></p> <p><input type="checkbox"/> MP 7: <i>Look for and make use of structure</i></p> <p><input type="checkbox"/> MP 8: <i>Look for and express regularity in repeated reasoning</i></p>								
<p><b>Level(s) of Knowing:</b></p> <p><input checked="" type="checkbox"/> Intuitive: <i>Linking to what students already know</i></p> <p><input checked="" type="checkbox"/> Concrete: <i>Moving manipulatives</i></p> <p><input type="checkbox"/> Pictorial: <i>Drawing pictures</i></p>	<p><input checked="" type="checkbox"/> Abstract: <i>Writing with symbols and numbers</i></p> <p><input checked="" type="checkbox"/> Application: <i>Applying to different situations</i></p> <p><input checked="" type="checkbox"/> Communication: <i>Explaining concepts, process and/or solutions to others</i></p>								
<p><b>Materials:</b></p> <ul style="list-style-type: none"> <li>-Number chart</li> <li>-General vocabulary sheet and flashcards</li> <li>-Bill and coin vocabulary sheet</li> <li>-Fake money (bills and coins)</li> <li>-Place value chart (whole numbers)</li> <li>-Place value chart (decimals)</li> <li>-Simple shopping ad</li> <li>-Shopping ad worksheet</li> </ul>	<p><b>Common misconceptions/misunderstandings by learners regarding the content that may interfere with learning:</b></p> <p>Misunderstanding the numbers that are said</p> <hr/> <p><b>Adaptations and/or Accommodations:</b> (How will EVERY student have access to the content of the lesson?)</p> <p>For students that are struggling with the review, a volunteer will work one-on-one with the student to review addition of whole numbers.</p> <p>If many students are struggling with the number concepts, this lesson should be stopped and returned to later, or if it is a small group, a volunteer could work with those students on basic number concepts.</p> <p>Advanced students will assist struggling students.</p>								
<p><b>Key Math Terms and Symbols:</b></p> <table border="0"> <tr> <td>Add (+), equals (=)</td> <td>Whole Numbers</td> </tr> <tr> <td>Hundredths</td> <td>Place Value</td> </tr> <tr> <td>Tenths</td> <td>Decimals</td> </tr> <tr> <td>Review of Hundreds/Tens/Ones</td> <td></td> </tr> </table>	Add (+), equals (=)	Whole Numbers	Hundredths	Place Value	Tenths	Decimals	Review of Hundreds/Tens/Ones		<p><b>Academic Vocabulary and Additional Language Demands:</b> (Non-math academic vocabulary and other language that may impact a student's ability to access the content in directions, examples, problems, etc.)</p> <p>Dollar (\$), cent (¢), money, receipt, expensive, cheap, dozen, gallon, lb. (pound)</p>
Add (+), equals (=)	Whole Numbers								
Hundredths	Place Value								
Tenths	Decimals								
Review of Hundreds/Tens/Ones									

**Teacher Reflection**

Notes for next time:

## Lesson Plan

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<b>Instructional Objective(s):</b> <i>(Statements written in teacher language, derived from content standards)</i>	At the end of this lesson, students will be able to: Add decimals using concrete models.
<b>Assessing Mastery of the Objective(s):</b> <i>(Indicate <u>when</u> and <u>how</u> assessment will occur during the lesson - formative and/or summative)</i>	By the end of this lesson, the students will be able to <u>add two decimals</u> as evidenced by <u>completion of the worksheet associated with the shopping ad</u> .
<b>Learning Target(s):</b> <i>(Statements of what students will be able to do as a result of the lesson, written in student-friendly language)</i>	"I can add the price of two items together."
<b>Introduction:</b>	<p>Review numbers and number pronunciation with students using the <b>number chart</b>. Read the numbers together, then have students go around the room and each say one number as they count to 100.</p> <p>Review money vocabulary using the <b>money vocabulary sheet and cards</b>. Start with the general money vocabulary sheet and have students listen and repeat the words to work on pronunciation. Then have students work in pairs to match the word flashcard to the picture flashcard. Then use the <b>vocabulary sheet with the pictures of coins and bills</b> to review the names of the different types of currency. Read and discuss together.</p> <p>Review basic money counting using the <b>fake money</b>. First pass out the bills – give each student 5 \$20, 5 \$5, and 5 \$1. Give the students the <b>place value chart (whole numbers)</b>. Count the total money together, then have students create different amounts (e.g. \$35, \$72, \$84 ...). As you do, review the idea that you add 10s and 10s and 1s and 1s (review of standard 1.NBT.4) (Students will have used the place value chart when they originally learned 1.NBT.4, so while you may need to review the idea of moving 10 1s to the 10s column, they should already understand how to use it).</p>
<b>Explanation &amp; Modeling:</b>	<p>Explain to students that you can add decimals (cents) in the same way. Pass out the <b>place value chart (decimals)</b> and <b>fake money coins</b> (dimes and pennies only). Work with students to understand that 1¢-9¢ go in the Hundredths column as pennies, and then you have to use dimes in the Tenths column and pennies in the Hundredths column for 10¢-99¢. After they have 100¢, then it moves to the Ones column (as a dollar).</p> <p>Model how to write different values of money and how to count the coins. Have students create different amounts of change using the coins and the place value chart.</p>
<b>Guided Practice:</b>	<p>Look at the <b>shopping ad</b> together. Ask students "How much is the ...?" (bread, apples, milk, etc.) to ensure that students understand how to read the ad.</p> <p>Using different sets of two items, work through adding prices together on the place value chart. After students appear to understand, have them attempt to work through one alone, then have students guide you through the steps they took.</p>
<b>Independent Practice:</b>	Have students work through the <b>shopping ad worksheet</b> using the place value chart. If students are struggling, match them with a student who understands the concept more and have the more advanced student help to explain the concept.

	<p>This worksheet is to help students record their answers, but they should be using the place value chart to help find the answer, not using a calculator or phone.</p> <p>Students who complete the worksheet with 80% accuracy can be considered to understand the concept. If the majority of the class does not meet this target, work more in a future lesson with this standard.</p>
<b>Student Reflection on Learning Targets, Closure, &amp; Connection to Future Learning</b>	<p>Tell students that tomorrow, we will be working with subtracting money.</p> <p>Have students do a thumb-based assessment of whether they feel they met the learning target – “I can add the price of two items together.”</p>

# Numbers

1 one	2 two	3 three	4 four	5 five	6 six	7 seven	8 eight	9 nine	10 ten
11 eleven	12 twelve	13 thirteen	14 fourteen	15 fifteen	16 sixteen	17 seventeen	18 eighteen	19 nineteen	20 twenty
21 twenty- one	22 twenty- two	23 twenty- three	24 twenty- four	25 twenty- five	26 twenty- six	27 twenty- seven	28 twenty- eight	29 twenty- nine	30 thirty

10 ten	20 twenty	30 thirty	40 forty	50 fifty	60 sixty	70 seventy	80 eighty	90 ninety	100 one hundred
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General vocabulary sheet – cut words and pictures apart to make flashcards

<p>Money</p>	
<p>Receipt</p>	
<p>Dollar</p>	
<p>Cent</p>	
<p>Shopping</p>	

<p>How much?</p>	
<p>Price</p>	
<p>Pay</p>	
<p>Expensive</p>	
<p>Cheap</p>	

# Bill and Coin Vocabulary Sheet

## Money

### Coins



1.  $\$.01 = 1\text{c}$   
a penny / 1 cent



2.  $\$.05 = 5\text{c}$   
a nickel / 5 cents



3.  $\$.10 = 10\text{c}$   
a dime / 10 cents



4.  $\$.25 = 25\text{c}$   
a quarter / 25 cents



5.  $\$.50 = 50\text{c}$   
a half dollar



6.  $\$1.00$   
a dollar coin

### Bills



7.  $\$1.00$   
a dollar



8.  $\$5.00$   
five dollars



9.  $\$10.00$   
ten dollars



10.  $\$20.00$   
twenty dollars



11.  $\$50.00$   
fifty dollars



12.  $\$100.00$   
one hundred dollars

## Place Value Chart - Whole Numbers

Hundreds	Tens	Ones
\$100	\$10	\$1

## Place Value Chart - Decimals

Hundreds	Tens	Ones	.	Tenths	Hundredths
\$100	\$10	\$1 100¢	•	\$0.10 10¢	\$0.01 1¢

# Supermarket Ad

## Produce



Broccoli  
\$3.45/lb.



Potatoes  
\$1.30/lb.



Apples  
\$2.09/lb.

## Meat



Chicken  
\$7.99/chicken



Salmon  
\$6.75/lb.

## Dairy Specials



Orange Juice  
\$4.50/half gallon



Milk  
\$2.39/half gallon



Cheddar Cheese  
\$5.25/lb.

## Bakery Specials



Cookies  
\$6.75/dozen



Bread  
\$5.45/loaf

# Going Shopping

1. How much is 1 lb. of broccoli and 1 half gallon of milk?

$$\underline{\hspace{2cm}} + \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

2. How much is 1 chicken and 1 lb. of potatoes?

$$\underline{\hspace{2cm}} + \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

3. How much is 1 dozen cookies and 1 half gallon of milk?

$$\underline{\hspace{2cm}} + \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

4. How much is 1 loaf of bread and 1 half gallon of orange juice?

$$\underline{\hspace{2cm}} + \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

5. How much is 1 lb. of apples and 1 lb. of cheese?

$$\underline{\hspace{2cm}} + \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

6. How much is 1 lb. of salmon and 1 lb. of broccoli?

$$\underline{\hspace{2cm}} + \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

7. How much is 1 lb. of apples and 1 lb. of cheese?

$$\underline{\hspace{2cm}} + \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

8. How much is 1 chicken and 1 lb. of salmon?

$$\underline{\hspace{2cm}} + \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

9. How much is 1 loaf of bread and 1 half gallon of orange juice?

$$\underline{\hspace{2cm}} + \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$

10. How much is 1 lb. of cheese and 1 lb. of potatoes?

$$\underline{\hspace{2cm}} + \underline{\hspace{2cm}} = \underline{\hspace{2cm}}$$