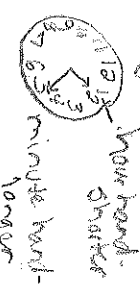


Measuring Time and Money

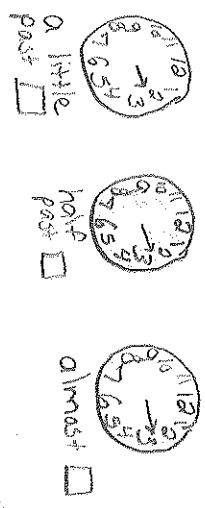
How long do these activities take?

- a few minutes
- half hour
- hour
- 6-10 hours
- 0.5 hour / day
- brushing teeth
- brushing hair
- Math class
- Reading a book together
- American Idol
- Watching a movie
- Putting on shoes
- Reading a book together
- Running once around a track

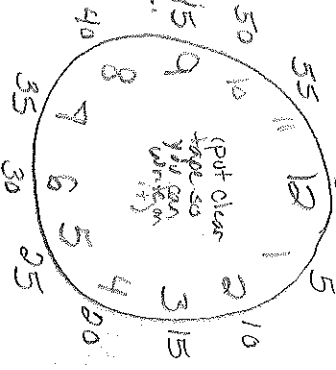


digital clock
 3:45
 hour minute

How do we read the hour hand?



How do we read the minute hand?



It's half past -
 It's - thirty.

It's a quarter past -
 It's - fifteen.

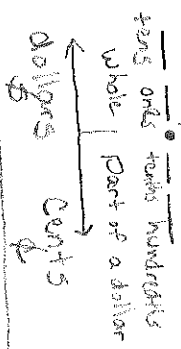
I have

What we know about...

Figuring Time and Money

What we want to learn about...

Place Value



What are bills and coins worth?

Value	Name	heads	tails
\$5 bill	5 dollar bill	0	0
\$1 bill	1 dollar bill	0	0
25c	quarter	0	0
10c	dime	0	0
5c	nickel	0	0
1c	cent	0	0

How do we skip count with money?

- 25c, 50c, 75c, 1.00
- 10c, 20c, 30c, 40c, 50c, 60c, 70c, 80c, 90c, 1.00
- Put them in order from greatest to least (skilled).
- Sequence count.

Word Problem

I have dimes and pennies. How much money do I have?
 picture and numbers

Answer	Explanation
I have 25c.	I drew a picture of the coins and got 25c.

- midnight to noon (lunch)
- morning
- AM
- PM
- noon - midnight (break)
- afternoon / evening
- pics
- pics
- pics
- pics

Standards and Mathematical Practices

1) We will tell time to the nearest 5 minutes by attending to precision.

2) We will use skip counting to count money. (repeated naming)

3) We will persevere in solving word problems about money.

AIM4S³™ CCSSM - Measurement and Data Second Grade

AP5 Units of Study **UNIT PLANNING TOOL**

Unit 9&10: Time and Money

CCSSM:
 NBT A2 • Count within 1,000; skip count by 55, 105 & 1005
 MDC 7 • Tell and write time to nearest 5 minute, using am and pm.
 MDC 8 • solve word problems involving dollar bills, quarters, dimes, nickels, and pennies using \$ and ¢ symbols

Math Practices being emphasized:
 #1 Sense of problems and persevere
 #2 Reason abstractly and quantitatively
 #6 Attend to precision
 #8 Look for... regularity in repeated reasoning.

Essential Questions

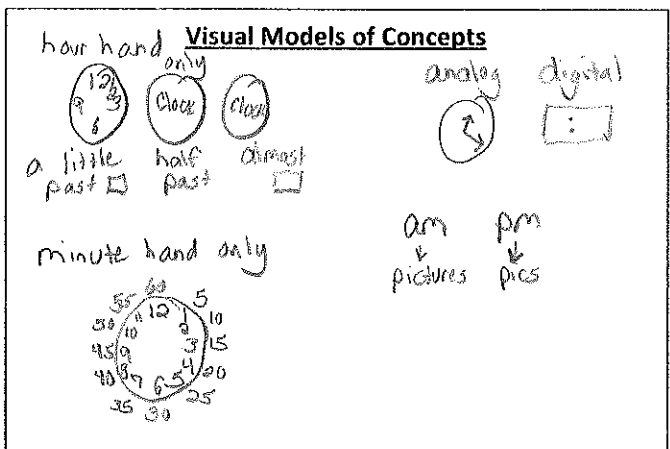
Why is it important to know about time (or money)?
 How do you know what time it is?
 What strategies can you use to solve word problems involving money?

Pre and Post Assessments

Pre
 EDM Journal Math Journal p.4 (modified)
 p. 2
 Word problem

Post
 Teacher made assessment with time and coins (similar to pre)
 APS

- Key Concepts**
- understand ^{and apply} how a clock works, hour hand, minute hand
 - understand am, pm
 - identify and use values of coins
 - power of skip counting when counting money
 - equivalent coin collections
 - applying understanding of money and time to word problems



Algorithms/Diagrams/Visuals

How long do these activities take?
 [minutes] [half hour] [hour] [6-10 hours]

Value	name	heads	tails	
\$5	\$5 dollar bill			
25¢	quarter	○	○	(larger photocopier)
10¢	dime	○	○	
5¢	nickel	○	○	
1¢	penny	○	○	

- Connections (Real World Applications)**
- daily schedule - What time is recess? library? dismissal?
 - about how long do different activities take (brushing teeth vs. reading a book)
 - paying for something at a store - counting your money

Word problem
 picture numbers
 Answer | Explanation

<p>Compare describe identify justify</p> <p>What time is it? It is <u>—</u> o'clock. It is <u>—</u> fifteen. It is a quarter after <u>—</u>.</p>	<p><u>Language Functions/Structures</u></p> <p>It is <u>—</u> thirty. It is half past <u>—</u>. It is <u>—</u> forty-five. It is a quarter 'til <u>—</u>. It is <u>am/pm</u> because <u>—</u>. I solved the problem by <u>—</u>. The <u>—</u> hand is on the <u>—</u>.</p>	<p>I counted the coins by <u>—</u>.</p>
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<p>half past almost a little after/before a quarter 'til a quarter after hour hand</p>	<p><u>Vocabulary</u></p> <p>minute hand analog clock digital clock noon midnight am pm</p>	<p>dollar quarter dime nickle penny cents dollars</p>	<p>equivalent coins bills \$, ¢ heads, tails</p>
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<p><u>Time</u></p> <p>Literature - <u>Time</u> by Henry Pharoose</p> <p>Discovery Ed - Telling Time w/ Analog and Digital</p> <p>Chant - I'm a Clock by Laura Curry</p> <p>Activity matching approximate times to activities (use pictures)</p> <p>Am/pm - YouTube Tick Tock Minutes</p>	<p><u>Focus and Motivation</u></p>
<p><u>Money</u></p> <p>Bags of coins or items from an ad Which ones are more or less?</p> <p>Skip counting game - Count - False - Skip count by other number (ie 25, 50, 60, 70, 80 85, 90, 95, 100, 105 110, 115)</p>	

Discovery Ed tools
Spinning for Money - EDM game

Other Resources

www.georgiastandards.org - Second grade unit 3
language focus - Using Hours and Minutes Together to Tell Time (Discovery Ed)
APS Performance Tasks - Unit 9 Jamir's Penny Jar
Once Upon a Time Unit 10 - Susan's Choice Saving Money