

How much for a new name?



Subject: Mathematics

Grade Level: First

Goals: The purpose of this lesson is for students to use coins for addition. They will collaborate with a small group to calculate and compare different coin amounts. They may follow up by using money in real-life situations.

Objectives:

Math: Students will be able to calculate the value of coins when combined, and determine the “value” of their name when each letter is given a value.

English: Students will be able to differentiate between vowels and consonants.

Standards Addressed:

NCTM Standards: PreK-2 Number and Operations

- Develop a sense of whole numbers, using them and representing them in flexible ways
- Connect number words and numerals to the quantities they represent, using various physical models and representations
- Count with understanding and recognize “how many” in a set of objects

Virginia Standards: First Grade Math:

1.10 The student will

- a) identify the number of pennies equivalent to a nickel, a dime, and a quarter; and
- b) determine the value of a collection of pennies, nickels, and dimes whose total value is 100 cents or less.

1.20 The student will interpret information displayed in a picture or object graph, using the vocabulary *more*, *less*, *fewer*, *greater than*, *less than*, and *equal to*.

Prior Knowledge: Students should be familiar with counting, identifying coins and their values, what a vowel/consonant is.

English:

Oral Language

1.1 The student will continue to demonstrate growth in the use of oral language.

- d) Express ideas orally in complete sentences.

1.3 The student will adapt or change oral language to fit the situation.

- a) Initiate conversation with peers and adults.
- b) Follow rules for conversation.
- c) Use appropriate voice level in small-group settings.
- d) Ask and respond to questions in small-group settings.

Reading

1.5 The student will apply knowledge of how print is organized and read.

- a) Read from left to right and from top to bottom.
- b) Match spoken words with print.

- c) Identify letters, words, and sentences.

Materials:

- Plastic or real money- pennies, nickels, and dimes- a collection in zipper type plastic sandwich bags
- Pencils and/or crayons and paper
- One Bible per group (optional)

Internet Resources

If you have access to a smart board, computers, etc. the following websites are good for introduction, assessment or extending the lesson.

1. <http://www.usmint.gov/kids/campCoin/funWithCoins.cfm> Additional money lesson plans and activities from the U. S. Mint
2. <http://www.usmint.gov/kids/games/> From the U. S. Mint – 21 interactive coin games
3. <http://www.aaamath.com/mny.htm> Coin, consumer math and giving change games

Lesson Overview: Using the letters in name, students will be informed that consonants are worth 5¢ and vowels are worth 10¢. They will compute the value of their names, and work co-operatively in groups to determine the values of three Biblical characters whose names were changed.

Lesson Procedures:

Introduction:

1. Pass out a baggie of coins to each student. Have each student also have a piece of paper and something to write with on the desk as well.
2. Review the names and values of each of the three coins.
3. “Everyone separate one of your nickels from the rest of the coins. How much is a nickel worth?” etc.
4. Review counting each coin by itself- a collection of pennies, a collection of dimes, and a collection of nickels. Give the students an amount to show you with their coins. Tell them they can only use all pennies, or all nickels, or all dimes.
5. Review counting nickels and pennies, dimes and pennies, and nickels and dimes. Remind the students of counting by a pattern of fives, or tens to add dimes and nickels together. Give the students examples such as: “Take out three dimes and two nickels. How much money do you have?”
6. Review the difference between consonants and vowels.

Main Activity:

1. Place students in groups of four. Tell them that they will be calculating how much their name is worth.
2. Tell students that consonants are worth 5¢ and vowels are worth 10¢.
3. On their paper, they are to write their names. Under each letter they place either a dime or nickel depending on if the letter is a vowel or consonant.
4. They can then use coins to add up the value of each letter- adding dimes and nickels together. They will write the amount next to their name
5. As each group member does this task, walk around the room and watch how they come up with their values.
6. Allow time for each group member to share and “double-check” the computation of others.
7. Tell students to compare the values of each person’s name. Listen to their discussions as they realize whose name is worth the most, least, etc. Encourage the use of the terms “greater than”, “equal to”, etc.

- Assign each group a name change. (Abram to Abraham, Sarai to Sarah or Saul to Paul) In each group students will calculate the value of a Biblical character's old name and new name and compare the results.

Conclusion:

- Teacher will tie the Biblical accounts into the discussion of the value of the names as each group shares their findings. Allow discussion on how they could earn money to "buy" their names or change their names.

Extension:

- Allow students to visit the website www.primarygames.com. Click on Math link, and let students play "Spending Spree." They have to choose items from the store and click on the correct amount of coins needed to buy that item.
- Students can add and subtract and make equivalent sums using coins at <http://www.aaaknow.com/mny.htm>
- Students color a quarter using the virtual <http://www.usmint.gov/kids/games/centsOfColor/>
- Students use calculators to add sums of coins
- Have students do classroom tasks (erasing the board, picking up litter) to earn their name's value to spend on class privileges such as being line leader. Those with the most "valuable names" will have to do more to earn the privileges which can be tied in with scriptures about "the greatest being the least and the servant of all."
- For upper grades, groups of letters can be assigned different values, for example- A-E \$1.00, F-J 25¢, K-O 10¢, P-T 5¢, U-Z 1¢. They can search through the Bible for the name worth the most, least or specified sums.

Assessment:

Informal:

Observation while performing the tasks

Formal:

Give each student a list of names. Have them compute the value of everyone's name.

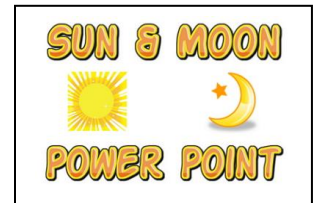
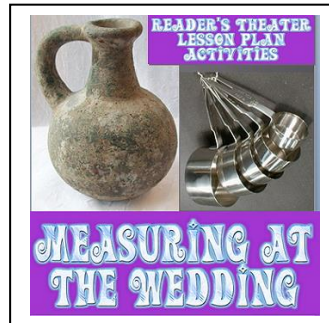
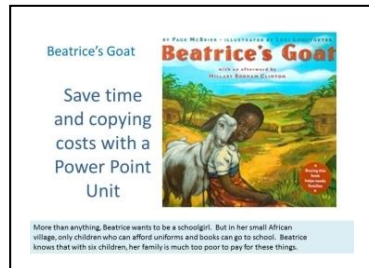
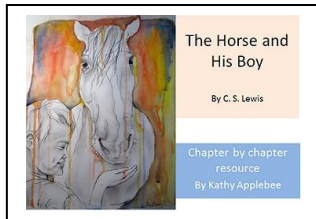
Have students create a pictorial representation of the value of a name to post. Students would use a three column chart as below

NAME	COINS	TOTAL VALUE
Sarah	(Drawings of 3 dimes and 2 nickels)	40 cents

ADDITIONAL PRODUCTS

FREEBIES: Novel study Power Points for *The Lion, Witch and Wardrobe*, *Magician's Nephew* and *The Horse and His Boy*. <http://www.foolsforchrist.net/novel-studies.html>

FREE LESSON PLANS: <http://www.foolsforchrist.net/lesson-plans.html> *Noah Subtraction*, *Build a Tower*, *Build a Budget* (Math), *Measuring at the Wedding* (science) and *Out of the Furnace* (Science) Take a walking field trip to find a good place to cool off. This lesson combines math (Basic operations and graphing), science (temperature and data collection) and the Fiery Furnace from Daniel 3. Extensions to the lesson bring in vocabulary and journaling. This lesson has adaptations to use with a mixed grade level class/differentiated learning.



Beatrice's Goat is a 28 slide Power Point thematic unit plan with an emphasis on economics designed to save you time and copying costs. It contains projects, maps and interdisciplinary connections based on the book including economics (productive resources and intermediate goods), math/science, writing prompts, grammar practice, games and internet resources. Covers language arts skills for grades 3-7 so it can be used as a tiered lesson series. <http://www.teacherspayteachers.com/Product/Power-Point-Beatrices-Goat-thematic-unit-316410>

<http://www.teacherspayteachers.com/Product/Power-point-Sun-and-Moon-Interdisciplinary-Science-Reading-38371> Free **Sun & Moon** Power Point with 31 slides - interdisciplinary science and reading

<http://www.teacherspayteachers.com/Product/Power-point-Hail-hailstorms-elementary-school-version-200384> This graphics intensive **FREE Hail and Hailstorms** 29 slide power point explains hail as a natural but unusual part of the water cycle. It includes the weather science behind hail formation, scriptural references, graphic organizers, internet resources, a teacher demo, practice reading charts and online games to review weather.

www.teacherspayteachers.com/Product/Package-Scientific-classification-PowerPoints-bingos-readers-theaters **Scientific classification** package contains 2 PowerPoints, 3 reader's theater scripts, 2 kinesthetic games, 2 bingo games (each with a classroom set of unique cards subtly marked so the teacher can differentiate instruction, over 50 clues and colorful marker chips that extend the learning), Internet resources and interactive games, Language arts extensions

Find royalty **free Christian Drama skits** at my Fools for Christ website at

<http://foolsforchrist.net> Find interactive Bible games at <http://guest.portaportal.com/applebeebible>