



Adventures in Coins

Elective Requirements

Complete the Following Requirements 1-4.

1. Identify different parts of a coin.
2. Find the mint mark on a coin. Identify the mint where the coin was made and the year.
3. Choose a coin that interests you, and make a coin rubbing. List information next to the coin detailing the pictures on it, the year it was made, and the mint where it was made.
4. Play a game or create a game board with your den or family where you can practice adding and subtracting coins.

The following tasks are fun (and optional):

5. Play a coin game.
6. Create a balance scale.
7. Do a coin-weight investigation.



Parent Corner

Coin collecting can be a really unique hobby. There are many museum around which show off historical coins from many different cultures. You can even visit the mint in San Francisco (<https://thesanfranciscomint.com/>)



ELECTIVE ADVENTURES



Adventures in Coins

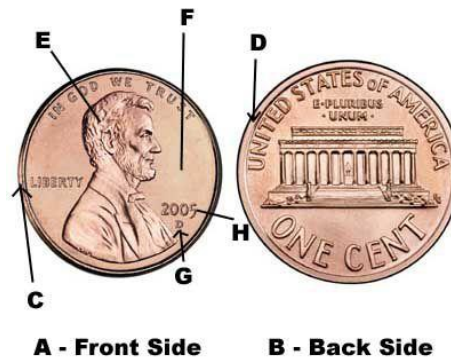
Requirement 1: Identify parts of a coin

Materials Needed

- Parts of a coin display
- Design Your Own Coin Template
- Pencil
- Colored Pencils
- Crayons
- Coloring Pens

Instructions

1. Review the different parts of the example coins shown below.
2. Design Your Own Coin.



Pee Wee Says

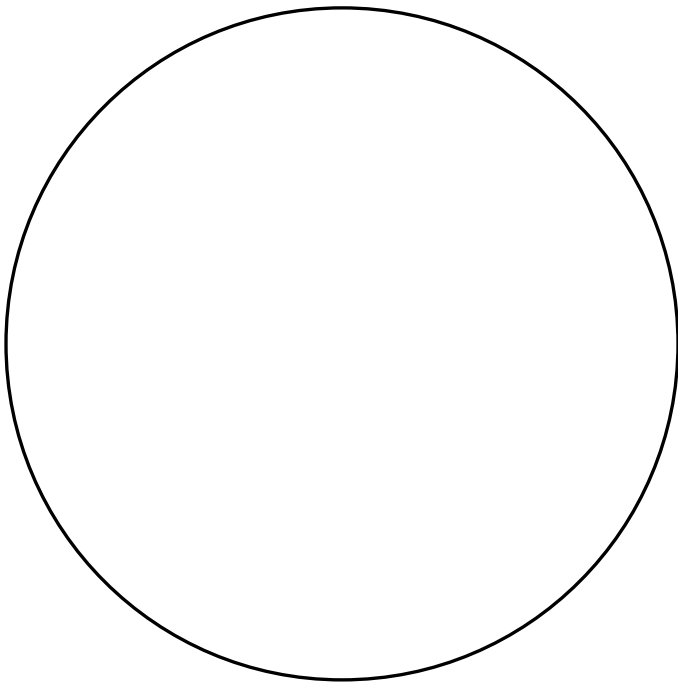
I find it really amazing all of the different type of coins that exist. Do you have any special coins?



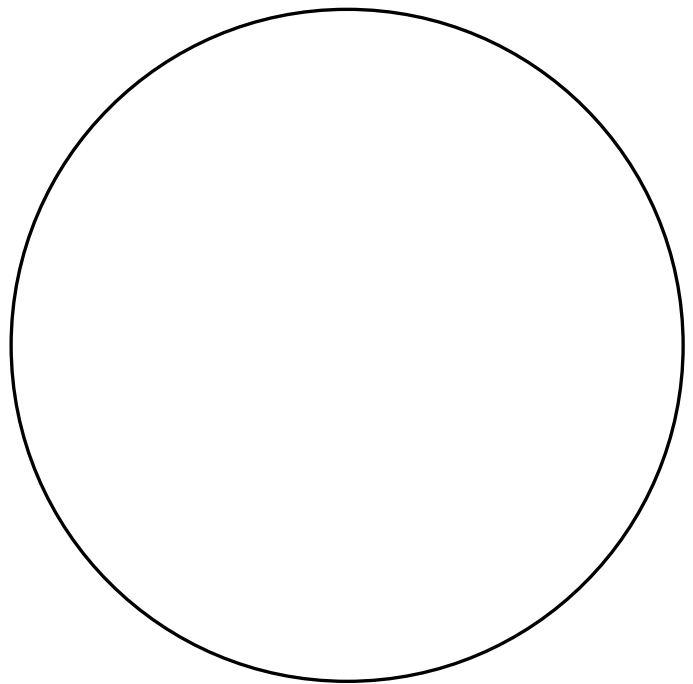
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Design Your Own Coin

Brainstorm ideas for what you would want to see on a coin. Draw and Sketch your design using the template below.



Front



Back



Pee Wee Says

Have you thought about starting a coin collection?





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Requirement 2: Mint Marks

Materials Needed

- Several different coins of different sizes and values.

Find the mint mark on a coin.

Instructions

1. Lay out your assembled coins on a table.
2. Examine each one for a mint mark.

A mint where the coin was made and the year it was made. Most coins in the United States have three different marks.

D = Denver

S = San Francisco

P = Philadelphia (this one is tricky, since sometimes they leave the coin "Plain" and don't have an actual "P" on it.)

Record Your Findings

Coin Value	Minted City



Pee Wee Says

No mint marks appeared on circulating coins from 1965 to 1967. The Coinage Act of 1965 eliminated mint marks to discourage collecting while the Mint worked to meet the country's coinage needs



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Adventures in Coins

Requirement 3. Coin Rubbings

Materials Needed

- Coins from requirement 2
- Pencil or Crayon
- Coin Rubbing Template

Instructions

1. Choose one or more coins that interests you.
2. Place the paper on top of the coin, Hold the paper firmly, and keep the coin steady.
3. The, using the side of the pencil lead or crayon, rub back and forth across the paper where the coin is lying underneath.
4. Continue rubbing until the entire side of the coin is copied on your paper. Be sure to rub both sides of the coin!

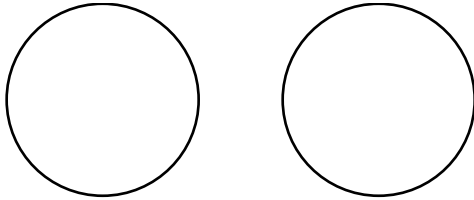


Pee Wee Says

You will be amazed at how much detail on a coin comes out when you make a rubbing of it. You can see the incredible amount of work that went into designing, casting, and making a coin.



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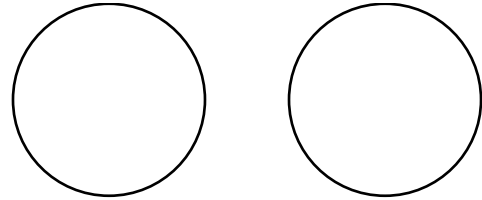
Provide some information about this coin.

Front Image: _____

Back Image: _____

Year coin was made: _____

City coin was made in: _____



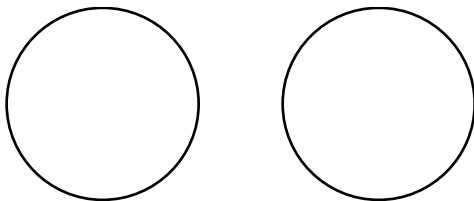
Provide some information about this coin.

Front Image: _____

Back Image: _____

Year coin was made: _____

City coin was made in: _____



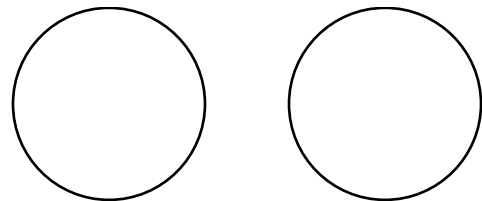
Provide some information about this coin.

Front Image: _____

Back Image: _____

Year coin was made: _____

City coin was made in: _____



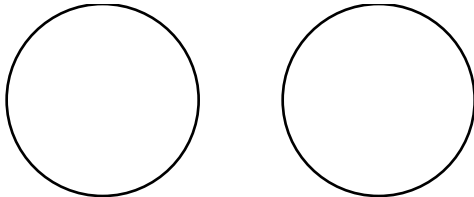
Provide some information about this coin.

Front Image: _____

Back Image: _____

Year coin was made: _____

City coin was made in: _____



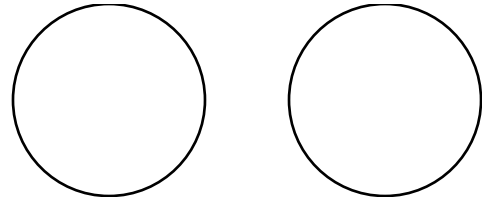
Provide some information about this coin.

Front Image: _____

Back Image: _____

Year coin was made: _____

City coin was made in: _____



Provide some information about this coin.

Front Image: _____

Back Image: _____

Year coin was made: _____

City coin was made in: _____



Pee Wee Says

This is a great way to begin a collection. Start making rubbings of all of the coins you find. In no time at all you will have an entire collection to look at.



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Adventures in Coins

Requirement 4. Play an adding and subtracting game

Materials Needed

- Dice
- Coins that add up to a few dollars.
Needs to be a variety of values

Instructions

1. Play one of the following adding and subtracting games.
2. Or, you can create your own game using coins with adding and subtracting of values.

Dollars and Dice Game

This game requires dice and real or cardboard coins, and is appropriate for kids who know how to add numbers. The goal of the game is to collect the correct number of coins to create a dollar. Players take coins based on a roll of the die. The numbers on the die correlate to the coin values as follows:

- 1—penny
- 2—nickel
- 3—dime
- 4—quarter
- 5—any coin (wild card)
- 6—lose a turn

Players take turns rolling the die and adding coins. The winner becomes the first player to reach exactly one dollar. If taking a coin would put the player over a dollar, the player loses the turn. Once the kids master the game, you can change the winning amount to odd amounts, like \$2.17.

Money Matching

The difficulty of this game can be varied depending on the needs of the young players. For children who are learning to count but are not adding yet, keeping values small and just using pennies will be effective. For older children who can add, use higher values and all of the coins.

Create a set of cards with different values, and give each child a starting bank of coins. For younger children, use card values up to 10 cents, and for older kids create card values up to a dollar.

Players take turns drawing cards and then use the coins to create the value shown on their card. There are typically no winners in this game, but perhaps you can provide a small reward like a sticker every time a player gets the right answer.



Pee Wee Says

Can you create you own coin counting game? Give it a try.



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Requirement 5. Play a coin game.

Materials Needed

- Coin

Heads or Tails

A very simple game for all group sizes. Have everyone stand up and either put their hands on their heads or their 'tail'.

Flip a coin and announce what side the coin lands on:

- If it lands on heads, everyone with their hands on their heads is out and must sit down
- If it lands on tails, everyone with their hands on their tail is out and must sit down.

Everyone who is left then chooses again whether they put their hands on their heads or tails. This continues until there is one person left who is the winner!

(If there are two people left, they must choose different ends so there is a winner).

If you are playing with a big group, make a giant sized novelty coin to flip so everyone can see the result!



Pee Wee Says

If you want to find more fun games to play with coins, check out the following website:
<https://www.usmint.gov/learn/kids/games>



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Requirement 6. Create a balance scale.

Do you know which U.S. coin weighs the most? Make predictions and explore different coin weights by creating your own coin balance scale.

Instructions

1. Collect different types of coins.
2. Examine each coin and notice how they are different. Some coins are bigger in size, and some are smaller. Some coins are thicker than others, and some weigh more.
3. Make predictions about coin weights:
 - Which coin weighs the most?
 - Which coin weighs the least?
4. Build a balance scale to test out your predictions.
 - Poke two small holes in two cups. Make sure the holes are close to the rim and on opposite sides.
 - Cut two pieces of string that are the same length (around 12 inches each).
 - Tie the ends of the string through the holes in the cups to create two buckets.
 - Hang the buckets on separate ends of a clothes hanger.
 - Tape the string to the hanger keep it in place.
 - Hang the hanger on a door handle.
5. Using the different coins, test out their weights to see what coin weighs more. Check your predictions:
 - Are your predictions are correct?
 - What did you learn about the different coins?
6. Experiment with different coin combinations. Compare the weight of two pennies with one nickel, or the weight of five dimes to two quarters.

Materials Needed

- Different types of coins
- 2 paper or plastic cups
- String (24 inches)
- Scissors
- Ruler
- Clothes hanger
- Tape





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Requirement 7. Do a coin-weight investigation.

Using your balance scale, try to find different values of coins that might weigh the same.

For example, do five pennies equal the weight of a nickel? Which is heavier? How can you make them equal? Does the weight of two nickels equal the weight of a dime?

Weight two different pennies. Make sure one is dated before 1982 and one is dated after 2000. Which is heavier? Do you know why they do not match?

Materials Needed

- Balance scale from requirement 6
- Coins



Pee Wee Says

“On October 22, 1982 the last mostly-copper cent was produced by the Denver Mint. After that date to now, pennies are made of zinc with a copper-plated cover. That is one reason that new pennies are so shiny.”