2022 GWCO Congress



Counterfeit Cash, Credit Card Cons, & Shoplifting Security



Counterfeit Cash, Credit Card Cons, & Shoplifting Security

Dr Robert Reed Jr O.D.

GWCO

October 9, 2022





"There's a NEW sheriff in town."

Financial disclaimer

Nobody pays me to sell you anything, nor influences what information I provide to you.

I'm willing to accept cash, but let's make sure it's NOT counterfeit!

Disclosure

I do NOT claim to be an expert in this area, but have been the victim of these incidents & want to share what I've learned by research & experience to keep the bad guys from winning.

If I offend anyone, I apologize now.

If anyone would like to contribute to the talk, I hope we'll have a few minutes at the end to hear other stories, & if not PLEASE share them with me after class.

Learning Objectives

After completing lecture attendee will be able to:

- 1) Recognize methods not-so-honest people use to illegally obtain merchandise & money
- 2) Employ methods to identify real vs counterfeit currency of various denominations
- 3) Employ behavior concepts if confronted by a possible situation in the office
- 4) Exhibit confidence to prevent potential office losses

Class Description

We're so busy today trying to make money in practice, we sometimes don't think about ways we may be losing it. There is an ongoing & growing business in counterfeit cash, credit card scams, & shoplifting. What you don't know can hurt you financially, so come & learn some of the necessary tips & tricks to protect your practice.

P.S. --- Bring a \$20 bill with you.



It can't happen to me... can it?

Credit Card Cons

\$3.64T in CC 2019

\$41B fraud losses 2019

2021-80% US cards hacked

30%+ ID breached

US 12% of CC business, but 35% of fraud total (2018) **Shoplifting Statistics 2021**

\$62B in 2020

= \$169M/day

Less events/Larger value

Value2-5% of office GROSS

Example-gross \$700,000

Loss = \$14T - \$35T

As of October 2015 merchants can be held responsible for CC losses, NOT the banks. In 2020, business's, 'ate' 1/3 of fraud losses.

... and Counterfeit Cash

\$2.04T in global circulation - \$1.02T in US

.03 of 1% counterfeit (~ 1 out of 10,000 bills)

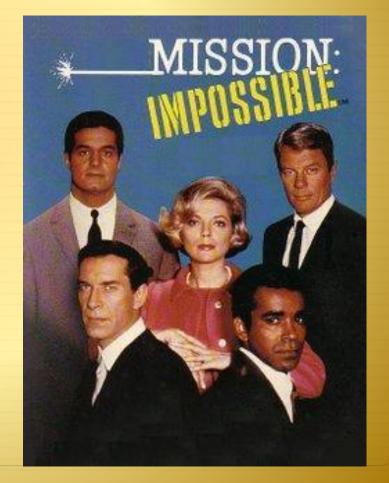
>\$300M fake - # 1 - \$20 #2 - \$100 #3 - \$50

Optical is prime
target for
phony cash



Dishonest mentality difference





Counterfeit passers

4 TYPES

Kids

Unknowing

Amateurs

Professionals

Situations

Small purchase with large bill

Large purchase frame only or non-Rx sunglass

Non-patient making quick buying decisions

Anyone paying all cash

IDing a Counterfeit

PAY ATTENTION TO CASH IN HAND!

First is the paper --- it "just doesn't FEEL right"

Distinctive weight & texture, fine red & blue fibers

Rub across coat & collar of the pictured person on bill

Fine ridges are part of sophisticated printing process

Look at serial numbers

Number on 2 different places should match

If more than 1 bill, each bill has different number

Purchase & use Counterfeit pen

Gold is GOOD. Black or Blue is BAD

2 Old \$5.00 Versions

\$5 Note

Issued 1993 - 2000

All U.S. currency remains legal tender, regardless of when it was issued.







\$5 Note

Issued 2000 - 2008

BA 23456789 A

All U.S. currency remains legal tender, regardless of when it was issued.

TOTAL DESIGNATION OF THE PARTY OF THE PARTY



NOTHE THE UNITED STATES

BA 23456789







Key Security Features

Security Thread

Hold the note to light to see an embedded thread running vertically to the left of the Federal Reserve Bank seal. The thread is imprinted with the letters USA and the word FIVE in an alternating pattern and is visible from both sides of the note. The thread glows blue when illuminated by ultraviolet light.

Look carefully (magnification may be necessary) to see the small printed words THE UNITED STATES OF AMERICA along the outer edge of the portrait's oval frame.



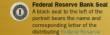
W. Stew Williams

Hold the note to light to see an embedded thread running vertically to the left of the portrait. The thread is imprinted with the text USA FIVE and a small flag in an alternating nattern and is visible from both sides of the note. The thread glows blue when illuminated by ultraviolet light.

Hold the note to light and look for a faint image of President Lincoln in the blank space to the right of the portrait. The image is visible from both sides of the note



Additional Design and Security Features





seal to the right of the portrait which is printed in the same green ink color as the



Raised Printing Move your finger along the

note's surface to feel the raised printing, which gives genuine Federal Reserve notes their distinctive texture.



Federal Reserve note paper is one-fourth linen and threefourths cotton, and contains red and blue security fibers.



Portrait and Vignette

The \$5 note features a portrait of President Lincoln on the front of the note and a vignette of the Lincoln Memorial on the back of the note.



Serial Numbers A unique combination of

numbers and letters that appears twice on the front of the note. For information about the serial numbers and other indicators on the note click



The design includes series rears 1993 and 1995.



Federal Reserve System Seal A black seal to the left of the portrait represents the entire

Federal Reserve System. A letter and number beneath the left serial number identifies the distributing Federal Reserve

Additional Design and Security Features



Microprinting

Look carefully (magnification may be necessary) to see the small printed words FIVE DOLLARS nside the left and right borders of the note and UNITED STATES OF AMERICA along the lower edge of the portrait's oval frame.



Raised Printing Move your finger along the note's surface to feel the raised printing, which gives genuine Federal

Reserve notes their distinctive texture



Federal Reserve note paper is one-fourth linen and three-fourths. cotton, and contains red and blue security fibers.



THE INITED STATES OF AMERICA STATES

Portrait and Vignette

READ STOLLEWID

of President Lincoln on the front of the note and a vignette of the Lincoln Memorial on the back of



Green 5 A large green numeral 5 on the back of the note helps those with visual impairments distinguish the denomination.



green seal to the right of the portrait represents the U.S. Department of the Treasury.

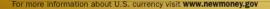


Serial Numbers

numbers and letters appears information about the serial numbers

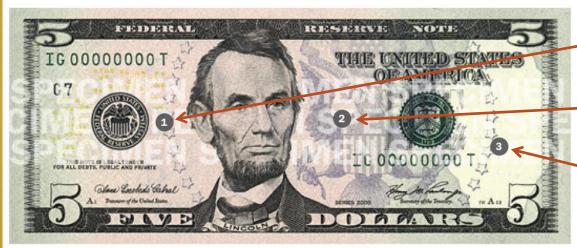


The design includes series years 1999, 2001, 2003, 2003A, and



\$5

The redesigned \$5 note was first issued in 2008. It has three key security features that are easy to check: a column of three small numeral 5 watermarks, a security thread, and a large numeral 5 watermark.





1. Watermark: Column of three smaller numeral 5s

2. Security Thread

3. Watermark: Large numeral 5

"5"s column
security strip
watermark "5"

\$10.00

2004 - present

2000 - 2004

1990 - 2000

Issued 2006 - Present



Issued 2000 - 2006



Security Features

Images Flip C

Issued 1990 - 2000



2 Old \$10 Versions

\$10 Note

Issued 2000 - 2006

All U.S. currency remains legal tender, regardless of when it was issued.









Key Security Features

Security Thread

Hold the note to light to see an embedded thread running vertically to the right of the portrait. The thread is imprinted with the text USA TEN and a small flag in an alternating pattern and is visible from both sides of the note. The thread glows orange when illuminated by ultraviolet light.

Watermark

Hold the note to light and look for a faint image of Secretary Hamilton in the blank space to the right of the portrait. The image is visible from both sides of the note.

Color-Shifting Ink

Tilt the note to see the numeral 10 in the lower right corner of the front of the note shift from green to black.



Additional Design and Security Features



A black seal to the left of the portrait represents the entire Federal Reserve System. A letter and number beneath the left serial number identifies the distributing Federal Reserve

Microprinting

Look carefully (magnification may be necessary) to see the small printed words THE UNITED STATES OF AMERICA repeated just above Hamilton's name and TEN repeated in the numeral in the lower left-hand corner



Raised Printing

Move your finger along the note's surface to feel the raised printing, which gives genuine Federal Reserve notes their distinctive texture.



Federal Reserve note paper is one-fourth linen and threefourths cotton, and contains red and blue security fibers



Portrait and Vignette

The \$10 note features a portrait of Secretary Hamilton on the front of the note and a vignette of the United States Treasury Building on the back of the note.



Green 10

A large green numeral 10 on the back of the note helps those with visual impairments distinguish the denomination.



Treasury Seal

A green seal to the right of the portrait represents the U.S. Department of the Treasury.



Serial Numbers

A unique combination of eleven numbers and letters appears twice on the front of the note. For information about the serial numbers and other indicators on the note click here



Series Year

The design includes series years 1999, 2001, and 2003.

\$10 Note











Key Security Features

Security Thread

Hold the note to light to see an embedded thread running vertically to the right of the portrait. The thread is imprinted with the text USA TEN and a small flag in an alternating pattern and is visible from both sides of the note. The thread glows orange when illuminated by ultraviolet light.

Watermark

Hold the note to light and look for a faint image of Secretary Hamilton in the blank space to the right of the portrait. The image is visible from both sides of the note

Color-Shifting Ink

Tilt the note to see the numeral 10 in the lower right corner of the front of the note shift from copper to



Additional Design and Security Features



Federal Reserve System Seal

Microprinting

A black seal to the left of the portrait represents the entire Federal number beneath the left serial number identifies distributing Federal

Look carefully (magnification may be necessary) to see the small printed

and TEN DOLLARS USA below the

TOT THE UNITED STATES OF AMERICA

portrait and inside the borders of the

note and USA 10 repeated beneath



Raised Printing

Move your finger along the note's surface to feel the raised printing, hich gives genuine Federal Reserve notes their distinctive texture.



one-fourth linen and three-fourths cotton, and contains red and blue



The note includes background colors of orange, yellow, and red.



Portrait and Vignette

The \$10 note features a portrait of Secretary Hamilton on the front of the note and a vignette of the United States Treasury Building on the back



Symbols of Freedom

Green 10

An image of the torch carried by the Statue of Liberty is printed in red to the left of the portrait of Secretary Hamilton. A smaller metallic red image of the torch can be found on the lower right side of the portrait

A large green numeral 10 on the

back of the note helps those with

irments distinguish the



on the front of the note. For information about the serial numbers and other indicators on the note clic

Serial Numbers

Treasury Seal

A green seal to the right of the

trait represents the U.S.

A unique combination of eleven

numbers and letters appears twice

Department of the Treasury.

Series Year The design includes series years 2004A, 2006, 2009, and 2013.



For more information about U.S. currency visit www.newmoney.gov

For more information about U.S. currency visit www.newmoney.gov

\$10

The redesigned \$10 note was first issued in 2006. It has three key security features that are easy to check: a security thread, portrait watermark, and color-shifting numeral 10.



D THE STATE OF THE

1. Security Thread 2. Portrait Watermark 3. Color-Shifting 10

1. Security strip

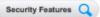
2. Watermark

3. 10 changes Color

Issued 2003 - Present











Issued 1998 - 2003









Issued 1990 - 1998



\$20.00

2003 -present

New \$20 with Harriet Tubman replacing Jackson. Was supposed to be on \$10, but huge uproar due to "Hamilton" broadway show by Lin-Manuel Miranda

1998 - 2003

1990 - 1998

2 Old \$20 Versions

\$20 Note

Issued 1990 - 1998

All U.S. currency remains legal tender, regardless of when it was issued.









Key Security Features

Security Thread

Hold the note to light to see an embedded thread running vertically to the left of the Federal Reserve Bank seal. The thread is imprinted with the letters I/S4 and the word TWENTY in an alternating pattern and is visible from both sides of the note. The thread glows green when illuminated by ultraviolet light.

Microprinting

Look carefully (magnification may be necessary) to see the small printed words THE UNITED STATES OF AMERICA along the outer edge of the portrait's oval frame.



Additional Design and Security Features



Federal Reserve Bank Seal A black seal to the left of the portrait which bears the name and corresponding letter of the distributing Federal Reserve



A green seal to the right of the portrait represents the U.S. Department of the Treasury.







Federal Reserve note paper is one-fourth linen and three fourths cotton, and contains red and blue security fibers.



The \$20 note features a portrait of President Jackson on the front of the note and a vignette of the White House on the back of the note.



Serial Numbers A unique combination of eleven numbers and letters appears twice on the front of the note. For information about the serial numbers and other indicators on the note click here



The design includes series years 1990, 1993, and 1995.

\$20 Note

Issued 1998 - 2003

All U.S. currency remains legal tender, regardless of when it was issued.









Key Security Features

Security Thread

fold the note to light to see an embedded thread running vertically to the left of the portrait. The thread is imprinted with the text USA TWENTY and a small flag in an alternating pattern and is visible from both sides of the note. The thread glows green when illuminated by ultraviolet light.

Watermark

Hold the note to light and look for a faint image of President Jackson in the blank space to the right of the portrait. The image is visible from both sides of the note.

Color-Shifting Ink

Tilt the note to see the numeral 20 in the lower right corner of the front of the note shift from green to black.



Additional Design and Security Features



Federal Reserve System Seal

A black seal to the left of the portrait represents the entire Federal Reserve System. A letter and number beneath the left serial number identifies the distributing Federal Reserve Bank,



Microprinting

Look carefully (magnification may be necessary) to see the small printed text USA20 repeated within the numeral in the lower left corner on the front of the note and THE UNITED STATES OF AMERICA along the lower edge ornamentation framing the portrait.



Raised Printing

security fibers.

Move your finger along the note's surface to feel the raised printing. which gives genuine Federal Reserve notes their distinctive texture.

Federal Reserve note paper is

one-fourth linen and three-fourths

cotton, and contains red and blue



Portrait and Vignette

he \$20 note features a portrait of President Jackson on the front note.



Green 20

denomination.

of the note and a vignette of the White House on the back of the

A large green numeral 20 in the

lower right corner on the back of the note helps those with visual

impairments distinguish the



Serial Numbers

Treasury Seal

A unique combination of eleven numbers and letters appears twice on the front of the note. For information about the serial numbers and other indicators on the note click here.

A green seal to the right of the

portrait represents the U.S.

Department of the Treasury.



Series Year The design includes series years 1996, 1999, and 2001.

For more information about U.S. currency visit www.newmoney.gov

\$20 Note

Issued 2003 - Present

All U.S. currency remains legal tender, regardless of when it was issued.









Watermark

20 shifts color

security thread



Key Security Features

Security Thread

Hold the note to light to see an embedded thread running vertically to the left of the portrait. The thread is imprinted with the text USA TWENTY and a small flag in an alternating pattern and is visible from both sides of the note. The thread glows green when illuminated by ultraviolet light.

Watermark

d the note to light and look for a age of President Jackson in the blank space to the right of the portrait. The image is visible from both sides of the not

Color-Shifting Ink

Tilt the note to see the numeral 20 in the lower right corner of the front of the note shift from copper to



Additional Design and Security Features



Federal Reserve System Seal A black seal to the left of the portrait represents the entire Federal Reserve System. A letter and number beneath the left serial number identifies the



Microprinting

necessary) to see the small printed text USA20 along the border of the first three letters of the blue TWENTY USA ribbon to the right of the portrait and THE UNITED STATES OF AMERICA 20 USA 20 in black in the border below the Treasurer's signature.



security fibers.

Move your finger along the note's surface to feel the raised printing, which gives genuine Federal Reserve

Federal Reserve note paper is

one-fourth linen and three-fourths

cotton, and contains red and blue



Portrait and Vignette

The \$20 note features a portrait of President lackson on the front of the note and a vignette of the White

The large blue eagle in the background

Symbols of Freedom

to the left of President Jackson's

portrait is representative of those

drawn and sculpted during his time

period. The smaller metallic green

is a more contemporary engraving.

eagle to the lower right of the portrait



A green seal to the right of the portrait represents the U.S. Department of the



Serial Numbers

A unique combination of eleven numbers and letters appears twice on the front of the note. For information about the serial numbers and other indicators on the note click here.



Series Year

2004, 2004A, 2006, 2009, and 2013.





Color

The note includes background colors of green and peach. The words TWENTY USA have been printed in blue in the background to the right of the

Green 20

A large green numeral 20 in the lower right corner on the back of the note helps those with visual impairments distinguish the denomination.

Issued 2004 - Present



Issued 1997 - 2004



Security Features Q Images Flip

Issued 1990 - 1997



\$50.00

2004 – present

1997 - 2004

1990 - 1997

2 Old \$50 Versions

\$50 Note

Issued 1990 - 1997

All U.S. currency remains legal tender, regardless of when it was issued.











Key Security Features

Security Thread

Hold the note to light to see an embedded thread running vertically to the right of the portrait. The thread is imprinted with the text USA 50 in an alternating pattern and is visible from both sides of the note. The thread glows yellow when illuminated by ultraviolet light.

Microprinting

Look carefully (magnification may be necessary) to see the small printed words THE UNITED STATES OF AMERICA along the outer edge of the portrait's oval frame.



Additional Design and Security Features







Move your finger along the note's surface to feel the raised printing, which gives genuine Federal Reserve notes their distinctive texture.





Federal Reserve note paper is one-fourth linen and threefourths cotton, and contains red and blue security fibers.



Portrait and Vignette

The \$50 note features a portrait of President Grant on the front of the note and a vignette of the United States apitol on the back of the note



Serial Numbers

A unique combination of eleven numbers and letters appears twice on the front of the note. For information about the serial numbers and other indicators on the note click here



The design includes series ears 1990 and 1993.

\$50 Note

Issued 1997 - 2004

All U.S. currency remains legal tender, regardless of when it was issued.









Key Security Features

Security Thread

Hold the note to light to see an embedded thread running vertically to the right of the portrait. The thread is imprinted with the text USA 50 and a small flag in an alternating pattern and is visible from both sides of the note. The thread glows yellow when illuminated by ultraviolet light.

Watermark

Hold the note to light and look for a faint image of President Grant in the blank space to the right of the portrait. The image is visible from both sides of the

Color-Shifting Ink

Tilt the note to see the numeral 50 in the lower right corner on the front of the note shift from green to black



Additional Design and Security Features

Federal Reserve Bank Seal

A black seal to the left of the portrait represents the entire Federal Reserve System. A letter and number beneath the left serial number identifies the distributing Federal Reserve



Look carefully (magnification may be necessary) to see the small printed words FIFTY repeated in the alternating spaces in the vertical side borders of the note and THE UNITED STATES

OF AMERICA in the left side of



Raised Printing

Move your finger along the note's surface to feel the raised printing, which gives genuine Federal Reserve notes their distinctive texture.



Federal Reserve note paper is one-fourth linen and threefourths cotton, and contains red and blue security fibers.



Portrait and Vignette The \$50 note features a portrait

of President Grant on the front of the note and a vignette of the United States Capitol on the back of the note.



Green 50

A large green numeral 50 on the back of the note helps those with visual impairments distinguish the denomination.



A green seal to the right of the portrait represents the U.S. Department of the Treasury.



Serial Numbers A unique combination of eleven

Treasury Seal

numbers and letters appears twice on the front of the note. For information about the serial numbers and other indicators on the note click here.



The design includes series years 1996 and 2001.

President Grant's collar.
For more information about U.S. currency visit www.newmonev.gov

\$50 Note

Issued 2004 - Present

All U.S. currency remains legal tender, regardless of when it was issued.





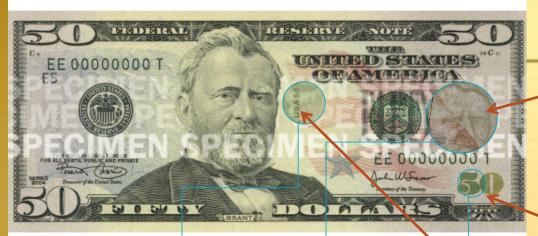




watermark

50 changes color

security strip



Key Security Features

Security Thread

Hold the note to light to see an embedded thread running vertically to the right of the portrait. The thread is imprinted with the text USA 50 and a small flag in an alternating pattern and is visible from both sides of the note. The thread glows yellow when illuminated by ultraviolet light.

Watermark

Hold the note to light and look for a faint image of President Grant in the blank space to the right of the portrait. The image is visible from both sides of the note.

Color-Shirting Ink
Tilt the note to see the numeral 50 in the lower right owner on the front of the note shift from copper to green



Additional Design and Security Features



Federal Reserve System Seal

A black seal to the left of the portrait represents the entire Federal Reserve System. A letter and number beneath the left serial number identifies the distributing Federal Reserve Bank



Look carefully (magnification may be necessary) to see the small printed text FIFTY, USA, and 50 inside two of

the blue stars to the left of the portrait, FIFTY repeated within both side orders of the note, and THE UNITED STATES OF AMERICA in President



Raised Printing

security fibers.

Move your finger along the note's surface to feel the raised printing. which gives genuine Federal Reserve

Federal Reserve note paper is

one-fourth linen and three-fourths

cotton, and contains red and blue

The note includes subtle background

colors of blue and red to both sides of



Portrait and Vignette

Symbols of Freedom

The \$50 note features a portrait of President Grant on the front of the note and a vignette of the United States Capitol on the back of the note



A green seal to the right of the portrait represents the U.S. Department of the

A unique combination of eleven Representative of the United States numbers and letters appears twice on flag, a field of blue stars is located to the front of the note. For information the left of the portrait, while three red about the serial numbers and other stripes are located to the right of the indicators on the note click here portrait. A small metallic silver-blue

Treasury Seal

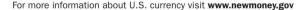


A large green numeral 50 on the back of the note helps those with visual impairments distinguish the

star is located on the lower right side



The design includes series years 2004, 2004A, 2006, and 2009.



Issued 2013 - Present



Issued 1996 - 2013



Security Features Q Images Flip C

Issued 1990 - 1996



\$100.00

2013 – present

1996 - 2013

1900-1996

2 Old \$100 Versions

\$100 Note

Issued 1990 - 1996

All U.S. currency remains legal tender, regardless of when it was issued.









Key Security Features

Security Thread

Hold the note to light to see an embedded thread running vertically to the left of the portrait. The thread is imprinted with the letters USA and the numeral 100 in an alternating pattern and is visible from both sides of the note. The thread glows pink when illuminated by ultraviolet light.

Microprinting

Look carefully (magnification may be necessary) to see the small printed words THE UNITED STATES OF AMERICA along the outer edge of the portrait's oval frame.



Additional Design and Security Features



Federal Reserve Bank Seal A black seal to the left of the portrait bears the name and corresponding letter of the distributing Federal Reserve



A green seal to the right of the portrait represents the U.S. Department of the Treasury.



Raised Printing Move your finger along the note's surface to feel the raised printing, which gives genuine Federal Reserve notes their distinctive texture.



Federal Reserve note paper is one-fourth linen and threefourths cotton, and contains red and blue security fibers.



Portrait and Vignette

The \$100 note features a portrait of Benjamin Franklin on the front of the note and a vignette of Independence Hall on the back of the note.



Serial Numbers

A unique combination of eleven numbers and letters appears twice on the front of the note. For information about the serial numbers and other indicators on the note click here.



The design includes series ears 1990 and 1993.

\$100 Note



All U.S. currency remains legal tender, regardless of when it was issued.









Key Security Features

Security Thread

Hold the note to light to see an embedded thread running vertically to the left of the portrait. The thread is imprinted with the letters USA and the numeral 100 in an alternating pattern and is visible from both sides of the note. The thread glows pink when illuminated by ultraviolet light.

Watermark Hold the note to light and look for a faint image of Benjamin Franklin in the blank space to the right of the portrait. The

image is visible from both sides of the note

Color-Shifting Ink

Tilt the note to see the numeral 100 in the lower right corner of the front of the note shift from green to black.



Additional Design and Security Features



Federal Reserve System Seal

A black seal to the left of the portrait represents the entire Federal Reserve System. A letter and number beneath the left serial number identifies the distributing Federal Reserve



Microprinting Look carefully (magnification may be necessary) to see the small printed text USA 100 within the numeral in the lower left corner and THE LINITED STATES OF AMERICA in the line in the left lapel of Franklin's



Raised Printing

Move your finger along the note's surface to feel the raised printing, which gives genuine Federal Reserve notes their distinctive texture.



For more information about U.S. currency visit www.newmoney.gov

Federal Reserve note paper is one-fourth linen and threefourths cotton, and contains red and blue security fibers



Portrait and Vignette

The \$100 note features a portrait of Benjamin Franklin on the front of the note and a vignette of Independence Hall on the back of the note.



Treasury Seal

A green seal to the right of the portrait represents the U.S. Department of the Treasury.



Serial Numbers A unique combination of eleven

numbers and letters appears twice on the front of the note. For information about the serial numbers and other indicators on the note click here.



Series Year

The design includes series ears 1996, 1999, 2001. 2003, 2003A, 2006, and

For more information about U.S. currency visit www.newmoney.gov

\$100 Note

Issued 2013 - Present

All U.S. currency remains legal tender, regardless of when it was issued.









Key Security Features

3-D Security Ribbon

Tilt the note back and forth while focusing on the blue ribbon. You will see the bells change to 100s as they move. When you tilt the note back and forth, the bells and 100s move side to side. If you tilt it side to side, they move up and down. The ribbon is woven into the paper, not printed on it.

Bell in the Inkwell Tilt the note to see the color-shifting bell in the copper inkwell change from copper to green, an effect which makes the bell seem to appear and disappear within the inkwell.

Watermark note to light and look for a faint image of Benjamin Frankin in the blank space to the night of the portrait. The image visible from both sides of

Color-Shifting Ink numeral 10 lower right corner front of the note shift from copper to green.

Security Thread

Hold the note to light to see an embedded thread running vertically to the left of the portrait. The thread is imprinted with the letters USA and the numeral 100 in an alternating pattern and is visible from both sides of the note. The thread glows pink when illuminated by ultraviolet light.



the note.

Additional Design and Security Features



Federal Reserve System Seal

A black seal to the left of the portrait represents the entire Federal Reserve System, A letter and number beneath the left serial number identifies the distributing Federal Reserve Ban



Microprinting

Look carefully (magnification may be ecessary) to see the small printed text THE UNITED STATES OF AMERICA on Benjamin Franklin's jacket collar. USA 100 around the blank space containing the portrait watermark, ONE HUNDRED USA along the golden quill. and small 100s in the note borders.



Raised Printing

Paper

Move your finger up and down Benjamin Franklin's shoulder on the left side of the note. It should feel rough to the touch, a result of the enhanced intaglio printing process used to create the image. Traditional raised printing can be felt throughout the \$100 note, and gives genuine Federal Reserve notes their distinctive

Federal Reserve note paper is

one-fourth linen and three-fourths

cotton, and contains red and blue



Portrait and Vignette

Gold 100

The \$100 note features a portrait of Benjamin Franklin on the front of the note and a vignette of Independence Hall on the back of the note.



A green seal to the right of the portrait represents the U.S. Department of the



Symbols of Freedom

Phrases from the Declaration of Independence and the quill the Founding Fathers used to sign the historic document are found to the

A large gold numeral 100 on the back

of the note helps those with visual impairments distinguish the



Series Year

The design includes series years 2009 and 2009A.

Serial Numbers

A unique combination of eleven

numbers and letters appears twice on

the front of the note. For information

about the serial numbers and other

indicators on the note click here

For more information about U.S. currency visit www.newmoney.gov

\$100.00

Watermark 3-D strip 100 color shift bell in inkwell security thread

Raised Printing



- Move your finger up and down Benjamin Franklin's shoulder
- Should feel rough to the touch







3-D Security Ribbon

Tilt the note back and forth, while focusing on the ribbon

You will see images of bells change to 100s in the ribbon as the note moves



Bells



100s



Security Ribbon







Bell in the Inkwell

 Tilt the note to see the bell change from copper to green



Copper



Green



Bell in the Inkwell







Portrait Watermark

Hold the note to light to see the watermark



Portrait Watermark

Portrait Watermark









Watermarks in Other Redesigned Currency

























Security Thread





· Hold the note to light to see the embedded security thread







Security Thread









Security Threads in Other Redesigned Currency



















Security Threads in Other Redesigned Currency

IDONAL ARES









Color-Shifting 100

Tilt the note to see the numeral 100 shift from copper to green



Copper



Green









Gold 100

Look for the large Gold 100 on the back of the note









Microprinting

Look carefully to see small printed words









OMG-IGOT ONE?!

If You Suspect a Counterfeit Note

- Contact your local police department or United States Secret Service field office (www.newmoney.gov/locator.htm)
- Write your initials and the date in the border of the suspect note
- Limit handling of the note and place in protective covering
- Surrender the note only to a police officer or a U.S. Secret Service agent
- It's OK to tell the person who gave you the note that it is counterfeit and call the police. BUT DO NOT GIVE IT BACK TO THEM!
- Most people will be fascinated by the experience if they are innocent.
- The ones who know they are passing fake cash will bolt. Get a description and picture of them and their car and license number on your cell for authorities.







Get to know these guys

Redesigned U.S. Currency



P.S. In 2030, the \$20 bill is adding Harriet Tubman















Who can do this?

Redesigned U.S. Currency



looking for a volunteer...















What's in YOUR wallet?

Pull out some cash & give it a quick inspection. Seems very different than when you ever looked at it before, eh?

Now Pull out credit cards:

Do credit cards have a "Gold square" on front

Do you know that is a minicomputer? 64% of Americans didn't know there was such a thing in August 2015 survey of 5000

Credit Card Cons

Protocol for physical credit cards

TYPES

Family

Stolen card

Stolen ID

"Con game"

Check card for signature

Check name against the person

Ask for ID to verify identity

Verify signature

Run through CC machine or take number, exp, CCV

Check for magnetic strip

Get billing address

Questions call CC company for verification

Credit card con actions

Confidence game

Discuss at staff meetings

Don't "advertise" non-doctor days or short-staff

JDSR

Engagement

Make copy of card

Keep CC contact info at phone

All hands on deck

Security system



New gold computer chip smart cards & card paypass



Gold chip



- Microprocessor (center) Brain gold chip's "CPU." Oversees transaction
- **VCC** (top left 1) & **GND** (top right 5) **Power** Turns chip on when inserted or near terminal
- **RST** (mid left 2) **Screener** analyzes security data terminal is requesting. If not correct, it powers chip down & stops transaction immediately.
- **CLK** (bottom left 3) **Validator** Matches frequency between terminal & chip before transmission occurs. If no match, chip powers down.
- **VPP** (mid right 6) **Programming Voltage** Provides voltage to create transaction.
- I/O or Input & Output (mid 7 & bottom right 8) Translators connect terminal & chip. Chip creates cryptogram. One-time unique code generated for each purchase made by gold chip card. Sent to terminal so transaction takes place.

Using new chip card terminal



New chip cards



- **♦ EMV technology (Europay, Mastercard, Visa)**
- **Each** transaction is single code that does NOT contain your personal ID info like magnetic strip
- **♦** One time code (stealing it's like stealing expired password)
- **♦** Used worldwide for 15 years
- ♦ ID theft down 75-95% using chip card tech worldwide
- ♦ USA is LAST country to convert. (~75% of USA CCs now)
- ♦ 1.06B CCs in US (average 4/adult)
- ♦ Personal office story of \$7000 'con'

Newer Card Paypass

No gold chip – uses RF embedded chip tech Touchless transactions speed security, sanitary Card, phone, watch, wristband, keytab, key chain



HUGE ACTION POINT

Tell YOUR Docs about this!

It has ALREADY happened...We can be denied payment for fraud.

Check your office CC machine for compatibility of EMV & paypass & update

Check your OWN CCs for chip & don't use "old" swipe cards

eCommerce fraud

Phone/Online/app/digital wallets

Fraud \$2.8B 2014, \$5.5B 2018, est >\$7B 2021(COVID)

Friendly fraud – orders/gets/forgets & challenges charge

Chargeback fraud – order/rcvs/challenges to get \$ back

BEWARE - CC rate reduction/phishing/SS & Gov't scams

ID theft - take over CC, bank acct, or open new cards

Your ID is a steal

10,818 data breaches accounting for >1.6B Records compromised 2005 – 2019

2019 - 88% CC fraud was opening new acct

CNP is 81% vs POS

*Fullz is Name, SSN, DOB, Acct#, bank info, CCV **single record v entire database



ID protection

Protect bills & receipts

Balance & report quickly

Don't reply to online deals

Go to official websites

ID monitor service

SS admin has free Cyber-protection Authentication/AI procedures

text/email when charge made

Annualcreditreport.com 1/y

Experion/TransUnion/Equifax

Fraud alert if compromised

Freeze credit (all 3)

Reduce social media 'blab'

...But let's talk about the office!

Shoplifting suspects

On the rise because:

Shaky economic conditions

More part time staff

Less supervision

Ease of selling stolen goods

Decline in honesty

Entitlement

Large dollar, small item

Low chance of being caught

Small chance of prosecution or jail time

Types

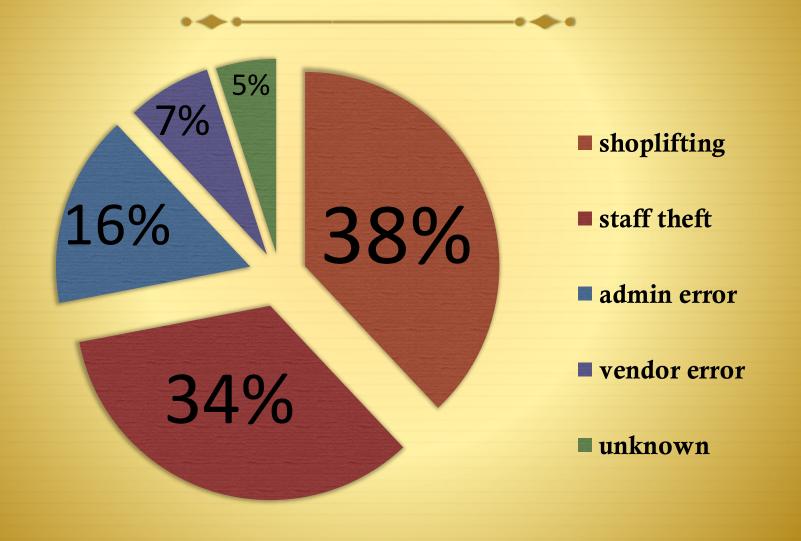
Spur-of-the-moment (75%)

Purposeful individuals

ORC (organized retail crime)

In-house?!! WHAT?

Inventory shrinkage breakdown



Internal theft Cash, Time, Product

Employee testing

Inventory system

Electronic surveillance

Vacations

Policy manual rules on personal goods & services

2020 NFIB retail survey

2/3 of US small business

"Sweethearting"

"Buddy-punching" (75%)

\$1380 average case

US Chamber of Commerce

75% of employees

50% repeatedly

>70% of cash thefts are manager or bookkeeper

Counter measures

Security systems

Security cameras

Perimeter protection

Signage

Acknowledge & eye contact

Engage & stay with customer

Locking displays

Keep frame boards full *

Keep high price items visible

JDSR

"The Doc"

"Low Vision Trade"

Inventory Shrinkage

(Now it's getting 'personal')

Doing the **UGLY** math

2 - 5 % of gross lost---

\$1,200,000/y x 2% =

\$24,000/y/\$60/frame =

400 frames/y ÷

200 days/y open =

2 frames /day gone

looking at it from physical inventory...

Rotation 8 weeks = 6x/year

Each visit 3-5 frames missing =

18 - 30 frames missing/vendor x

10 vendors in office =

180-300 frames/year missing ÷

200 days/y open =

1-2 frames /day gone

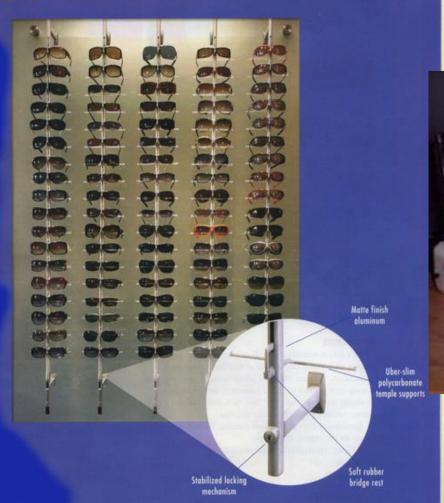
^{*}Story problem skills courtesy 9th grade math teacher Mr Merlyn Myers

Security system in entry



Shoplifting Security

LOAD & LOCK!





Security systems – 6 cameras/phone app/digital recording < \$200

Shoplifting Signs

Win a FREE Ride in a Police Car just by shoplifting from this store.



Lucky Winners will also get their name in the newspaper for their friends and family to see!

Won't Mom & Dad be proud?

SHOPLIFTING IS A CRIME

FREE BRACELETS OF with each theft

We LOVE shoplifters BBQ'd extra crispy with lots of sauce



Shoplifting apprehension

shoplifting 6 step rules must apply.

- 1) You must see the person approach the merchandise.
- 2) You must see the person take possession of the item.
- 3) You must see where the person hid the merchandise.
- 4) You must maintain UNinterrupted surveillance.
- 5) You must see that the person didn't pay for the item.
- 6) You must stop the person as they leave the office.

Things you DO next

ALWAYS consider safety of yourself & other staff

Police already called by another staff member

Person witnessing shoplifting must stay "with" shoplifter.

Doctor/owner/person in charge needs brought in

Description of person, picture, picture of car make, model, & license

"soft confrontation"

"Soft confrontation"

- "Let me get you a case for those tortoise sunglasses"
- "Those Prada glasses will look terrific on you. Let me show you how to clean them."
- Lets person know you're aware what they've done
- Gives chance to produce the item & retrieve the property, best case scenario
- Tell them police called to straighten things out

What happens next?

They'll get loud, cry, scream, threaten to sue, become belligerent, bargain, be sorry, or amazingly "find the frame they didn't realize they had"

Pros & experienced shoplifters will bolt.

If they do, keep in sight, see they go, get pictures of vehicle & license

Write everything down immediately while fresh in your mind.

What NOT to do

Do NOT put your hands on an individual

Do Not name call, become verbally abusive, or yell

Do not lose your temper or cool

Keep a soft tone & BREATHE

Do NOT chase them on foot or in vehicle

Do NOT put yourself in danger... it's ONLY product & money

Counterfeit cash in news



The future is how you see it





Thanks for sharing your time with me for 2 days!

Questions?



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Hope y'all had a real good time, hear!