STUDENT WORKBOOK

THE 21ST CENTURY STUDENT'S GUIDE TO

GOING GL BAL



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BY

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Na	me:
	Classybucks Conundrum
as par use	the medium of exchange; (2) it must provide a unit of account — a standardized value understood by both ties to a transaction; and (3) it must be capable of being saved so people can accumulate wealth. If the thing ed as a medium of exchange lacks any key function, it's not money. There are also many characteristics of oney. A medium of exchange may lack some of the characteristics, yet still qualify as money.
rigl det	u are an expert in the <i>process or system by which goods and services are produced, sold, and bought.</i> (That's nt. You're an economist!) You have been invited to Classtopia to examine and analyze Classybucks to termine whether they meet the specific functions of money. Reread <i>Calamity in Classtopia!</i> on page 32, and swer the following questions.
1.	Are Classybucks the medium of exchange commonly accepted by Classtopians to purchase goods or services? How can you tell? Is a commonly accepted medium of exchange a <i>function</i> or a <i>characteristic</i> of money?
2.	Do Classybucks provide a common measure of value ? How can you tell? Is a common measure of value a <i>function</i> or a <i>characteristic</i> of money?
3.	Do Classybucks allow for a store of value so they can be accumulated for future use? How can you tell? Is store of value a <i>function</i> or a <i>characteristic</i> of money?
4.	Durability. Are Classybucks durable? How can you tell? Is durability a function or a characteristic of money?
36	Chapter 3 Show Me the Medium of Exchange

5.	Do Classybucks have a stable value ? How can you tell? Is stability of value a <i>function</i> or a <i>characteristic</i> of money?
6.	Are Classybucks divisible ? How can you tell? Is divisibility a <i>function</i> or a <i>characteristic</i> of money?
7.	Transportability. Can Classybucks be carried or moved around? How can you tell? Is transportability a function or a characteristic of money?
8.	Are Classybucks difficult to counterfeit ? How can you tell? Is difficulty to counterfeit a <i>function</i> or a <i>characteristic</i> of money?
	ave duly inspected and considered the functions and characteristics of Classtopia's Classybucks. I have termined that Classybucks
	are money in Classtopia are not money in Classtopia
Sig	MONEY SEAL OF APPROVAL
	Economist
	What you know about

money? Check your answers on the following page.

ANSWER KEY

Classybucks Conundrum

- exchange. A commonly accepted medium of exchange is a **function** of money, Yes. The Classtopians all agreed to use paperclips as their medium of exchange, so they are commonly accepted as the Classtopia medium of
- 2 Yes. They have a stated value defined by their red, green or yellow color. A common measure of value is a **function** of money
- ယ student saved enough for tutoring, etc. Store of value is a **function** of meny. Yes. Classybucks can be accumulated for future use. We know this because calculator kid saved his Classybucks and bought a calculator. Another
- 4 money. Yes. Paperclips are relatively durable. In that they do not decompose, deteriorate or degrade much over time. Durability is a **characteristic** of
- ĊП value is a **characteristic** of money. Yes. We are told that the government of Classtopia issued Classybucks in limited supply, so we can assume the value will be stable. Stability of
- 9 Yes. There are several denominations of Classybucks indicated by the different color paperclips. Divisibility is a characteristic of money.
- . Yes. Paperclips are lightweight and easy to carry around. Transportability is a **characteristic** of money
- Yes. We are told that the Classtopia insignia is difficult to forge. Difficulty of counterfeit is a **characteristic** of money.

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Na	me:		
	Detecting Counterfeit Money		
sai du im Re the	unterfeit currency is <i>imitation</i> (fake) currency produced without the legal nction of the state or government. Counterfeiting has serious implications. The mping of counterfeit money into circulation affects the money supply . That can pact stability of value, reducing the purchasing power of money . The Federal serve Bank and the U.S. Treasury maintain a great deal of vigilance to prevent a printing of counterfeit money. If you find a counterfeit bill, the correct procedure to turn it over to the United States Secret Service .	THE INTERS	EXPENDING THE AND THE
	<i>n you spot a counterfeit?</i> For this exercise you will need a U.S. bank note (bill) in ar er 1996. (A \$5 bill is best.)	ıy denominati	on, printed
1.	 Check the portrait. Does it appear lifelike? Are the details of the portrait very fine and clear? Does it stand out from the background? On a counterfeit bill, the portrait is often lifeless and flat, merging into a dark and details of the portrait may not be clear and crisp, or it may contain ink smudges of secret printing methods which cannot be replicated. Portraits on bills are detailed. The printing is clear and crisp. Portraits appear to stand out from the background. Check out the Federal Reserve and Treasury Seals. Are the saw-tooth points of the seals clear? Are the saw-tooth points sharp? 	r bleeds. Real I and contain	currency uses
0	On a counterfeit bill, the seals may have uneven, blunt, or broken saw-tooth point		
3.	 Check out the border. Are the fine lines in the border clear? Are the fine lines of the border unbroken? Is there any ink bleed (like a smear) along the border? Look closely. On a counterfeit bill, the lines in the outer margin and scrollwork mand there may be slight ink bleeds along the border. 	☐ Yes☐ Yes☐ Yes☐ Yesay be blurred a	☐ No ☐ No ☐ No and indistinct,

4.	Check out the serial numbers.		
	 Are the numbers printed in the same ink color as the Treasury seal? 	☐ Yes	□ No
	 Are the numbers evenly spaced and perfectly aligned? 	☐ Yes	□ No
	On genuine bills, the serial numbers have a distinctive style and are perfectly align the same color or ink shade as the Treasury seal and the numbers are uniformly serial numbers maybe vertically or horizontally uneven, and lack uniformity.	•	•
5.	Check out the paper.		
	• Look closely – can you see tiny red and blue fibers embedded in the paper?	☐ Yes	□ No
	• Feel it — Is it thin and crisp?	☐ Yes	□ No
	Can you feel the raised print ever-so-slightly?	☐ Yes	□ No
	The paper that money is printed on is a blend of cotton and linen fibers. It is made manufacturing process and never sold commercially. It is illegal to even <i>try</i> to reporten attempt to simulate the red and blue fibers by printing tiny red and blue line money, the red and blue fibers are embedded into the paper, not printed on it. Alsordinary paper. A real bill is very thin and the print is slightly raised and detectable	oroduce it! Cou es on their pap so, a fake will	unterfeiters oer. On real
6.	Hold the bill up to the light. (This works only for \$5, \$10, \$20 or larger bills	s printed afto	er 1996)
	 Do you see a strip or thread running vertically to the left of the Federal Reserve seal? 	☐ Yes	□ No
	 Does the strip appear to be embedded in the bill? 	☐ Yes	□ No
	Can you see a watermark? (A small area of darker and lighter areas.)	☐ Yes	□ No
	 When shifting the angle of view, does the number on the lower right corner of the note change color? 	☐ Yes	□ No
	Security threads are placed in different places on each denomination. This prever bills from being bleached and reprinted as higher denominations. (Those crooks the security thread is not printed on the bill — it is embedded in it. All 1990 series and \$2 bills, include this feature. A watermark feature makes counterfeiting difficult to color copiers or scanners. In a genuine bill, the ink on the lower right numeral will directly and change to black when the note is tilted.	hink of everytl d later bills, e: pecause it doe	hing!) The xcept \$1 and es not copy on
W.	ent to know more about detecting counterfeit currency?		

Want to know more about detecting counterfeit currency?

Bureau of Engraving and Printing

U.S. Department of the Treasury www.moneyfactory.gov/anticounterfeiting/securityfeatures.html **United States Secret Service**

www.secretservice.gov/money_detect.shtml

EXPLORING 21st CENTURY SKILLS AND ISSUES

	Careers in Cybersecurity
NOW HIRING Employees for a fast-growing industry. Excellent pay Video gaming experience helpful Desire to apprehend cyber-criminals and investigate cyber-crime. Knowledge of cryptography helpful. Willing to complete intensive training program.	In 2013, 40 million credit and debit card numbers were stolen when Target's computers were hacked. Adobe, eBay, Sony Pictures, Yahoo and Marriott have all suffered serious and very damaging data breaches (hacks). Every year, hundreds of billions of dollars are lost to hackers. Hackers pose a real and constant threat to the security of our nation in the form of a cyber attack on the money supply air traffic control, telecommunications systems, nuclear facility utilities, or banks. Cyber attacks are on the rise. Data breaches can also occur as a result of accidental or unintentional leaks.
Hackers encouraged to apply.	Cybersecurity refers to the technologies, processes and practices
The state of the s	that protect networks, computers, programs and data from attack, damage or unauthorized access. Cybersecurity is so critic
rkforce. The EC-Council is an organized certification in all areas of cybersecul train you. The U.S. military's version	promote cybersecurity education in order to increase the cybersecurity exation of IT (Information Technology) professionals who provide training urity. Want to become a CEH (Certified Ethical Hacker)? The EC-Council of cybersecurity is called cyber operations ("cyber-ops"). Let's investigate ops. Your resources for this assignment are: acts (YouTube) (8:52)
www.defense.gov/explore/story/Arti	cle/1648425/dods-cyber-strategy-5-things-to-know
www.eccouncil.org	
www.eccouncil.org atch <i>10 Cyber Security Facts</i> to answe	er questions 1 and 2.

EXPLORING 21st CENTURY SKILLS AND ISSUES

Refer to www.eccouncil.org/Certification to answer the questions 3-8. 3. What (or who) is an ethical hacker? 4. Can you earn a certificate in *ethical hacking?* 5. What does CHFI stand for? What does a CHFI do? What are their skills? 6. What (or who) is a CHI and what do they do? 7. What is *steganography?* 8. What (or who) is a CES, and what do they do?

EXPLORING 21st CENTURY SKILLS AND ISSUES

Go	to www.defense.gov and search cyber strategy to answer question 9.
9.	What is the DOD Cybersecurity Strategy? BRASS BRITTARY CYBER OPS
	to www.nsa.gov ; on the menu bar click <i>Resources for</i> ; On the drop down menu, to <i>Resources for Students and Educators</i> to answer questions 10-12.
10.	What is the intent of the CAE-Cyber Operations (Cyber-Ops) program?
Go	to List of Current Centers of Academic Excellence — Cyber Operations.
11.	If you want to study cyber-ops in an NSA authorized and designed program, what college can you go to? List the three colleges that are closest to your home.
12.	Are you interested in pursuing a career in cybersecurity or cyber-ops? Why or why not?

Check what you know about Cybersecurity Careers on page 304.

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