M319: AP Computer Science Principles Explore Performance Task

Date:	Teacher:	

Name: Luke Erickson

Research Template

Source Author:	Alexander George
Source Title:	"Did You Miss the Cryptocurrency Boat?"
Full Citation: MLA8 from easybib.com	George, Alexander. "Did You Miss the Cryptocurrency Boat?" <i>Popular Mechanics</i> , Apr. 2018, p. 16. <i>EBSCOhost</i> , search.ebscohost.com/login.aspx?direct=true&db=ulh&AN=128244901&site=ehost-live.
Permalink/URL:	http://search.ebscohost.com/login.aspx?direct=true&db=ulh&AN=12824490 1&site=ehost-live

In 1-2 sentences, describe what makes this a relevant, credible, and easily-accessible source:*		
Relevant:	The article was published less than a year ago.	
Credible:	The source of the article, Popular Mechanics, is a long-standing source of scientifically accurate information.	
Easily-Accessible:	The source may be found by a google search and is included in research databases, such as EBSCO.	
*If you determine that this isn't a relevant, credible, and easily-accessible source, then you		
CANNOT use it.		

Quote, Fact, or Statistic From Article:

Unlike standard investing, which is regulated by a central authority, cryptocurrencies are self-regulated, meaning that their software is run on many volunteers' own computers. This ensures that the software is difficult to hack and that everybody follows the same rules.

Categorize:			
Description Select one: □ Purpose □ Function	Select one: Beneficial □ Harmful Select one: □ Society □ Culture ■ Economy	☐ Data Select one: ☐ What data it uses ☐ How it uses data (input) ☐ What data it produces (output) ☐ Data storage concern ☐ Data privacy concern ☐ Data security concern	
must collaboratively solve a ma	ricle: ryptocurrency is valid, enough verth problem. This ensures that the arties own the correct amount of	e transaction was agreed to	
Categorize:			
■ DescriptionSelect one:□ Purpose■ Function	☐ Effect Select one: ☐ Beneficial ☐ Harmful Select one: ☐ Society	☐ Data Select one: ☐ What data it uses ☐ How it uses data (input) ☐ What data it produces (output)	
	☐ Culture ☐ Economy	 □ Data <u>storage</u> concern □ Data <u>privacy</u> concern □ Data <u>security</u> concern 	

Quote, Fact, or Statistic From Article:			
Cryptocurrencies are secure because of the fact that a lone computer is unable to decode a singular coin. This is because the math required to crack the cryptography of a singular coin would take an unreasonably large time to complete. The drawback of this is that the time it takes for many computers to decode a coin is still large on its own.			
Categorize:			
emege, ize.			
Description	Effect	□ Data	
Select one: ☐ Purpose Function	Select one: Beneficial Harmful Select one: Society Culture Economy	Select one: ☐ What data it uses ☐ How it uses data (input) ☐ What data it produces (output) ☐ Data storage concern ☐ Data privacy concern ☐ Data security concern	

Note: If you require more entries for this source, you can use copy-paste to add more.

Source Author:	Douglas Heaven
Source Title:	"The Great Bitcoin Crash"
Full Citation:	Heaven, Douglas. "The Great Bitcoin Crash." New Scientist, vol. 240, no.
MLA8 from	3208, Dec. 2018, p. 24. EBSCOhost, doi:10.1016/S0262-4079(18)32305-4.
easybib.com	
Permalink/URL:	http://search.ebscohost.com/login.aspx?direct=true&db=ulh&AN=13352878
	1&site=ehost-live

Relevant:	The article was written in December of 2018.	
Credible:	The New Scientist has long been a source of popular science knowledge	
	and uses fact and scientific-based evidence to back up its claims.	
Easily-Accessible:	The New Scientist can be found on research databases such as EBSCO as	
	well as in magazine form.	
*If you determine that this isn't a relevant, credible, and easily-accessible source, then you		
CANNOT use it.		

Quote, Fact, or Statistic From Article:			
A large part of the profit derived from cryptocurrency mining relies on local electricity prices. For example, given that Bitcoin were to be worth \$4000, mining Bitcoin would only be profitable if electricity costs were five cents/KWH or cheaper. This means that cryptocurrency mining is generally unprofitable in the United States, as electricity prices are above five			
cents/KWH in every state.			
Catagoriza			
Categorize:			
☐ Description	Effect	□ Data	
Select one:	Select one:	Select one:	
☐ Purpose ☐ Function		☐ What data it uses	
	Harmful	☐ How it uses data	
	Select one:	(input) ☐ What data it produces	
	☐ Society	(output)	
	□ Culture	☐ Data <u>storage</u> concern	
	☐ Economy	☐ Data <i>privacy</i> concern☐ Data <u>security</u> concern	

Note: If you require more entries for this source, you can use copy-paste to add more.

Source Author:	Andrew Soergel
Source Title:	"Countries Try to Lasso Cryptocurrencies"
Full Citation:	Soergel, Andrew. "Countries Try to Lasso Cryptocurrencies." U.S. News -
MLA8 from	The Report, June 2018, p. C19. EBSCOhost,
easybib.com	search.ebscohost.com/login.aspx?direct=true&db=ulh&AN=130425784&site
	=ehost-live.
Permalink/URL:	http://search.ebscohost.com/login.aspx?direct=true&db=ulh&AN=13042578
	4&site=ehost-live

In 1-2 sentences, describe what makes this a relevant, credible, and easily-accessible source:*		
Relevant:	The article was published in June of 2018.	
Credible:	US News uses factual reporting whose main goal is to inform and educate the reader.	
Easily-Accessible:	US News has its own website and its articles can be found on research databases, such as EBSCO.	
*If you determine that this isn't a relevant, credible, and easily-accessible source, then you		
CANNOT use it.		

Quote, Fact, or Statistic From Article:			
It is estimated that the business	of cryptocurrency is approachin	g a value of \$1 trillion.	
Categorize:			
	T F(C)		
☐ Description	Effect	□ Data	
Select one:	Select one:	Select one:	
☐ Purpose ☐ Function	Beneficial \square	☐ What data it uses	
	Harmful	☐ How it uses data	
		(input)	
	Select one:	☐ What data it produces	
	☐ Society	_(output)	
	Culture	☐ Data <u>storage</u> concern	
	Economy	□ Data <u>privacy</u> concern	

		☐ Data <u>security</u> concern
	,	,
cryptocurrency use within its be coin offerings), the banishment	esting in cryptocurrencies, China orders, with actions including th of exchanges of cryptocurrency of energy that mining organizati	e banishment of ICOs (initial with those outside the country,
Categorize:	Effect	□ Data
Select one: ☐ Purpose ☐ Function	Select one: □ Beneficial Harmful Select one: □ Society □ Culture ■ Economy	Select one: ☐ What data it uses ☐ How it uses data (input) ☐ What data it produces (output) ☐ Data storage concern ☐ Data privacy concern ☐ Data security concern
Quote, Fact, or Statistic From Art. It is estimated that one-tenth of Categorize:	icle: funds raised by investors for ICo	Os were stolen or hacked.

□ Description	Effect	□ Data
Select one: □ Purpose □ Function	Select one: Beneficial Harmful Select one: Society Culture Economy	Select one: ☐ What data it uses ☐ How it uses data (input) ☐ What data it produces (output) ☐ Data storage concern ☐ Data privacy concern ☐ Data security concern
Quote, Fact, or Statistic From Article:		
Categorize:		
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- (1) George, Alexander. "Did You Miss the Cryptocurrency Boat?" *Popular Mechanics*, Apr. 2018, p. 16. *EBSCOhost*, search.ebscohost.com/login.aspx?direct=true&db=ulh&AN=128244901 &site=ehost-live.
- (2) Soergel, Andrew. "Countries Try to Lasso Cryptocurrencies." *U.S. News The Report*, June 2018, p. C19. *EBSCOhost*, search.ebscohost.com/login.aspx?direct=true&db=ulh&AN= 130425784&site=ehost-live.