

Name: _____ Student ID Number: _____ Period: _____
Date: _____

b. Why do you think that the particular metal that you identified in Question 6a is not used as the outside surface of a penny?

7. Given your new knowledge about the relative chemical activities of these four metals,
a. Which metal is *most* likely to be found in an uncombined, or “free,” (metallic) state in nature?

b. Which metal is least likely to be found chemically uncombined with other elements?

8. Reconsider your experimental design for this investigation:

a. Would it have been possible to eliminate one or more of the metal-solution combinations and still obtain all the information needed to create chemical activity ratings for the four metals?

b. If so, which combination or combinations could have been eliminated? Why?

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Unit 2

B.5 Investigating Matter: Relative Reactivities of Metals

Data Tables

Initial Appearances of Each Metal

Metal	Initial Appearance
Cu	
Mg	
Zn	

Metal Reactivity

Metal	$\text{Cu}(\text{NO}_3)_2$ Cu^{2+}	$\text{Mg}(\text{NO}_3)_2$ Mg^{2+}	$\text{Zn}(\text{NO}_3)_2$ Zn^{2+}	AgNO_3 Ag^+
Cu				
Mg				
Zn				