

Name _____

Chemical Substances Survey (Set A)

1. Your friend's favorite earring is made of a light gray metal. How would you be able to determine if this is silver? Please explain your response.

2. Your friend's mother tells you this earring is made of pure silver. Your friend accidentally lost her earring and you found it a few months later. You noticed that it was no longer shiny and that it was now a dark gray/black color. Is the earring still made out of silver, or is it a different substance? Please choose your response below.

_____ Still Silver _____ Different Substance

Please explain your response. What evidence do you have that the earring is made out of silver or a different substance?

Is there any further information you would like to know in order to make a decision? If so, what is it? How would this information help you make a decision?

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3. You have been assigned a school project where you have to explain what chlorophyll is to other students in your class. You decide to create a poster that has the title: "What is chlorophyll?" What would you put on this poster, and how would it help you explain what chlorophyll is to the other students?

4. Chlorophyll can be isolated from the leaves of a tree growing in the forest and from algae growing in a pond. Is the chlorophyll from the leaves of the tree the same or different as the chlorophyll from the algae in the pond? Please choose a response below.

_____ Same

_____ Different

Please explain your choice. What evidence do you have that the chlorophylls are the same or different?

Is there any further information you would like to know in order to make a decision? If so, what is it? How would this information help you make a decision?