**Lab 1-3 C: Slivers of Silver**  Name:

 Date:

 Block:

**Purpose**: To demonstrate how silver can be made in the lab.

**Materials/Apparatus**: Refer to p. 35 of BC Science 9.

**Procedure**: Refer to p. 35 of BC Science 9.

**Data/Observations/Results:**

Copper (II) + Silver Nitrate (*aq*) Copper (II) Nitrate + Silver

\_\_\_\_\_\_\_\_\_\_ + \_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_ + \_\_\_\_\_\_\_\_\_\_

Describe what you observe as slivers of silver grow on the sides of the copper.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Discussion Questions**:

1. Suggest why the slivers of silver tended to get longer rather than fatter as they grew.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Why is Nitrate (NO3-) considered a compound, not an element?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Bonus**:

1. What type of reaction was used in this lab? *\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*

**LAB 1-3 C**  **Slivers of Silver** NAME:\_\_\_\_\_\_\_\_\_\_\_\_

 **SELF ASSESSMENT RUBRIC** BLOCK:\_\_\_\_\_

|  |  |  |  |
| --- | --- | --- | --- |
|  | **3** | **2** | **1** |
| **PAGE SET-UP/ PURPOSE / MATERIALS/****PROCEDURE** | Format is correct. All present, neat, using dark, blue or black ink.  | All/ most present, using dark, blue or black ink/or pencil. | Some filled in, using dark, blue or black ink/or pencil or missing. |
| **DATA/****OBSERVATIONS/RESULTS:**  | Data table is accurate, neat, and complete and has an accurate title.  | Data table is neat, and complete. | Data table is incomplete or missing. |
| **SAFETY, SKILL & CLEAN-UP** | Student is on task and follows procedures safely. Materials are cleaned up and disposed of as teacher instructed. | Some reminders needed to be on task and follow procedures safely. Materials are cleaned up and disposed of with some reminders.  | Many reminders needed to be on task and follow procedures safely. Materials are cleaned up and disposed of, with many reminders.  |
| **DISCUSSION** **QUESTIONS** | All questions are answered neatly and accurately in full, complete sentences using dark, blue or black ink. Results are included.  | Most questions are answered accurately, using dark, blue or black ink/or pencil. | Many inaccurate/missing answers.  |
| **CONCLUSION** | Conclusion neatly and accurately answers the questions in full, complete sentences using dark, blue or black ink.  | Conclusion answers the questions, using dark, blue or black ink/or pencil. | Conclusion stated using 1 sentence. |

 TOTAL: /15

 **TEACHER RUBRIC**

|  |  |  |  |
| --- | --- | --- | --- |
|  | **3** | **2** | **1** |
| **PAGE SET-UP/ PURPOSE / MATERIALS/****PROCEDURE** | Format is correct. All present, neat, using dark, blue or black ink.  | All/ most present, using dark, blue or black ink/or pencil. | Some filled in, using dark, blue or black ink/or pencil or missing. |
| **DATA/****OBSERVATIONS/RESULTS:**  | Data table is accurate, neat, and complete and has an accurate title.  | Data table is neat, and complete. | Data table is incomplete or missing. |
| **SAFETY, SKILL & CLEAN-UP** | Student is on task and follows procedures safely. Materials are cleaned up and disposed of as teacher instructed. | Some reminders needed to be on task and follow procedures safely. Materials are cleaned up and disposed of with some reminders.  | Many reminders needed to be on task and follow procedures safely. Materials are cleaned up and disposed of, with many reminders.  |
| **DISCUSSION** **QUESTIONS** | All questions are answered neatly and accurately in full, complete sentences using dark, blue or black ink. Results are included.  | Most questions are answered accurately, using dark, blue or black ink/or pencil. | Many inaccurate/missing answers.  |
| **CONCLUSION** | Conclusion neatly and accurately answers the questions in full, complete sentences using dark, blue or black ink.  | Conclusion answers the questions, using dark, blue or black ink/or pencil. | Conclusion stated using 1 sentence. |

TOTAL: /15