How I evaluated my work: (total score)\_\_\_\_\_\_\_\_\_ How my peer evaluated my work: (total score) \_\_\_\_\_\_\_\_ How Ms. G evaluated me:

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **PENNY LAB** | Exceeds 4 points | Meets 3 points | Approaching 2 points | Partial 1 point | No credit 0 |
| Hypothesis | I have written my own hypothesis in my own words to predict what I will discover in this lab. | I have used the sample hypothesis provided in the lab to predict what will happen. | I have used part of the sample hypothesis or written part of my own hypothesis, but my prediction is not clear. | I have written something, but it does not predict what I think will happen. | No work for this section. |
| Data provides strong evidence. | At least 20 pennies across many decades. Mass and date recorded for each penny. My answer is strongly proven by my data, with many different pennies showing the two most important years. | At least 15 pennies across many decades. Mass and date recorded for each penny. My answer is proven by the date and year of two pennies. | At least 10 pennies studied. Mass and date recorded for each penny. My answer is not clearly proven by specific penny data. | Less than 10 pennies studied. Mass or date information missing for each penny. My answer is not clearly proven by specific penny data. | No work for this section. |
| Data: organization | My data is neat and organized. I used at least two data tools to display my data (chart, table, graph) | My data is neat and organized. I used a chart or graph or table to display my data. | My data is not neat OR  I did not use a table, graph, or chart to display my data | My data is not neat or organized. I did not use a table, graph or chart to display my data. | No work for this section. |
| Analysis Question 1 | I answer the yes/no question based on my data. I explain my answer in writing. | I have answered the yes/no question based on my data. | Yes/no question is answered but my data doesn’t prove my answer | I did not answer the yes/no question. | No work for this section |
| Analysis Question 2 | Highly accurate answer: Change happened in ­­­­­\_\_\_\_\_\_. | Correct answer: Pennies in \_\_\_\_ more mass than pennies in \_\_\_\_\_ (two years) | Fairly accurate answer: Pennies changed mass between \_\_ and \_\_\_  (within 4 years) | Beginning answer: pennies changed mass between \_\_\_ and \_\_(More than 4 years) | No work for this section |
| Analysis Question 3 | Answer cites penny mass/date data and mass or density of zinc and copper. 3 or more sentences | Answer cites penny mass/date data or mass or density of zinc and copper. 2 or more sentences. | Answer cites penny mass/date data or mass or density of zinc and copper. 1 sentence or less. | Answer does not cite any lab information. Answer is unclear, no sentences | No work done for this section. |
| Analysis Question 4 | Correct answer based on copper and zinc properties and cost. | Thoughtful answer based on copper or zinc properties or cost. | Answer is not thoughtful or does not mention background info. | Answer is not clear or thoughtful | No work done for this section |
| Analysis Question 5 | Both big ideas correctly discussed | One big idea correctly discussed | One or both big ideas discussed…with error | Neither big idea clearly discussed. Answer unclear | No work done for this section. |
| **SCORE**  **How my peer evaluated me:** | Peer name: |  |  |  |  |
| **PENNY LAB** | Exceeds 4 points | Meets 3 points | Approaching 2 points | Partial 1 point | No credit 0 |
| Hypothesis | I have written my own hypothesis in my own words to predict what I will discover in this lab. | Hypothesis states that the year can OR cannot be discovered by using mass | Hypothesis doesn’t state that the year can OR can’t be discovered using mass | Hypothesis is not clear | No work for this section. |
| Data provides strong evidence. | At least 20 pennies across many decades. Mass and date recorded for each penny. My answer is strongly proven by my data, with many different pennies showing the two most important years. | At least 15 pennies across many decades. Mass and date recorded for each penny. My answer is proven by the date and year of two pennies. | At least 10 pennies studied. Mass and date recorded for each penny. My answer is not clearly proven by specific penny data. | Less than 10 pennies studied. Mass or date information missing for each penny. My answer is not clearly proven by specific penny data. | No work for this section. |
| Data: organization | My data is neat and organized. I used at least two data tools to display my data (chart, table, graph) | My data is neat and organized. I used a chart or graph or table to display my data. | My data is not neat OR  I did not use a table, graph, or chart to display my data | My data is not neat or organized. I did not use a table, graph or chart to display my data. | No work for this section. |
| Analysis Question 1 | I answer the yes/no question based on my data. I explain my answer in writing. | Question is answered and agrees with data | Question is answered but data does not prove the answer | I did not answer the yes/no question. | No work for this section. |
| Analysis Question 2 | Highly accurate answer: Change happened in ­­­­­\_\_\_\_\_\_. | Correct answer: Pennies in \_\_\_\_ have more mass than pennies in \_\_\_\_\_ (two years) | Fairly accurate answer: Pennies changed mass between \_\_ and \_\_\_  (within 4 years) | Beginning answer: pennies changed mass between \_\_\_ and \_\_(more than 4 years) | No work for this section |
| Analysis Question 3 | Answer cites penny mass/date data and mass or density of zinc and copper. 3 or more sentences | Answer cites penny mass/date data or mass or density of zinc and copper. 2 or more sentences. | Answer cites penny mass/date data or mass or density of zinc and copper. 1 sentence or less. | Answer does not cite any lab information. . Answer is unclear, no sentences | No work for this section. |
| Analysis Question 4 | Correct answer based on copper and zinc properties and cost. | Thoughtful answer based on copper or zinc properties or cost. | Answer is not thoughtful or does not mention background info. | Answer is not clear or thoughtful | No work for this section |
| Analysis Question 5 | Both big ideas correctly discussed | One big idea correctly discussed | One or both big ideas discussed…with error | Neither big idea clearly discussed. Answer unclear | No work for this section. |
| **SCORE** |  |  |  |  |  |