

## Chemistry Lab Report Peer Grading Rubric – Flame Test

Whose lab report are you grading? \_\_\_\_\_

Grader's Name \_\_\_\_\_ Date \_\_\_\_\_ Period \_\_\_\_\_

What is the name of the experiment? \_\_\_\_\_

\*\*\*Take off at least one point for each box that is not checked in the table below.

| <u>Requirements</u> | <u>Earned<br/>Points</u> | <u>Possible<br/>Points</u> | <u>Comments</u> |
|---------------------|--------------------------|----------------------------|-----------------|
|---------------------|--------------------------|----------------------------|-----------------|

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|--|--|----|--|
| <b>Heading</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> Experiment title</li> <li><input type="checkbox"/> Lab partner(s)</li> <li><input type="checkbox"/> Date of experiment</li> </ul>   |  | 3  |  |
| <b>Pre-lab</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> Purpose</li> <li><input type="checkbox"/> Background Knowledge (5 points)</li> <li>Procedure</li> <li><input type="checkbox"/> Safety</li> <li><input type="checkbox"/> Protocol</li> </ul>   |  | 8  |  |
| <b>Observations</b> <ul style="list-style-type: none"> <li><input type="checkbox"/> Includes table with all 10 solutions + 2 UNKs</li> <li><input type="checkbox"/> Includes descriptions of each flame test<br/>(1/2 point each x 12 = 6 points total)</li> <li><input type="checkbox"/> Descriptions consist of MORE than 2 words<br/>(1/2 point each x 12 = 6 points total)</li> <li><input type="checkbox"/> Table includes title</li> <li><input type="checkbox"/> Legible and organized</li> </ul>   |  | 15 |  |
| <b>Discussion Questions</b> <ol style="list-style-type: none"> <li>1. Identifying the Unknown Ion <ul style="list-style-type: none"> <li><input type="checkbox"/> Correctly identifies the UNK #1 as<br/>_____ <b>5 points</b></li> <li><input type="checkbox"/> Correctly identifies the UNK #2 as<br/>_____ <b>5 points</b></li> </ul> </li> <li>2. The flame provides the <u>energy</u> needed to excite the electron to a higher energy level. (1 pt)</li> <li>3. Give one point for each of the following terms: <ul style="list-style-type: none"> <li><input type="checkbox"/> excited state</li> <li><input type="checkbox"/> ground state</li> <li><input type="checkbox"/> photon</li> </ul> </li> <li>4. Do a flame test (1 pt)</li> <li>5. There is Calcium in the milk (1 pt)</li> <li>6. Green and Red (2 points)</li> </ol> |  | 18 |  |

|  |  |    |  |
|--|--|----|--|
| <p><b>Conclusion and Evaluation</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Complete sentences</li> <li><input type="checkbox"/> Correct spelling and grammar</li> </ul> <p>Paragraph 1:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> <b>Claim:</b> references the purpose (2 pts)</li> <li><input type="checkbox"/> <b>Evidence:</b> references observations (2 pts)</li> <li><b>Reasoning:</b></li> <li><input type="checkbox"/> Excited vs. ground state (2 points)</li> <li><input type="checkbox"/> <math>E_{\text{photon}}</math> determines frequency/color (2 pts)</li> </ul> |  | 10 |  |
| <p><b>Presentation</b></p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Well-organized, sections clearly labeled</li> <li><input type="checkbox"/> Neat, legible writing</li> <li><input type="checkbox"/> Table of contents includes information</li> <li><input type="checkbox"/> Page numbers included</li> <li><input type="checkbox"/> Lab is written in ink</li> <li><input type="checkbox"/> Errors properly crossed out, no white out</li> <li><input type="checkbox"/> Writes on one side of the page only</li> </ul>  |  | 6  |  |

Total points earned: \_\_\_\_\_ / 60

**\*\*\* Don't forget to write the score in the table of contents!**

Write two things the student did well in this lab report:

▪

▪

Write two things that the student could do to improve the lab report:

▪

▪