

Chemistry Lab Report Peer Grading Rubric – % Composition of Hydrates Lab

Whose lab report are you grading? _____

Grader's Name _____ Date _____ Period _____

***Take off at least one point for each box that is not checked in the table below (unless otherwise noted)

| <u>Requirements</u> | <u>Earned Points</u> | <u>Possible Points</u> | <u>Comments</u> |
|--|----------------------|------------------------|-----------------|
| Heading <ul style="list-style-type: none"> <input type="checkbox"/> Experiment title <input type="checkbox"/> Date of experiment <input type="checkbox"/> Lab Partner | | 3 | |
| Pre-lab <ul style="list-style-type: none"> <input type="checkbox"/> Purpose <input type="checkbox"/> Procedure (3 points) <ul style="list-style-type: none"> ➤ Imperative ➤ Detailed enough to follow ➤ Numbered steps | | 4 | |
| Data <ul style="list-style-type: none"> <input type="checkbox"/> Mass of evaporating dish <input type="checkbox"/> Mass of dish + hydrate <input type="checkbox"/> Mass of dish + anhydrous salt <input type="checkbox"/> All quantities include appropriate units <input type="checkbox"/> Legible and organized | | 5 | |
| Observations <ul style="list-style-type: none"> <input type="checkbox"/> 2-3 complete sentences <input type="checkbox"/> Clearly describes hydrate color (blue) <input type="checkbox"/> Clearly describes anhydrate color (white) <input type="checkbox"/> Correct spelling and grammar | | 4 | |
| Calculations <ol style="list-style-type: none"> 1. Mass of water lost <ul style="list-style-type: none"> <input type="checkbox"/> Mass (dish + hydrate) – (dish + anhydrate) <input type="checkbox"/> Substitution <input type="checkbox"/> Boxed answer with g units 2. % of water in hydrate <ul style="list-style-type: none"> <input type="checkbox"/> (Mass of water lost / mass of hydrate) x 100 <input type="checkbox"/> Substitution <input type="checkbox"/> Boxed answer with % units 3. Theoretical % of H₂O <ul style="list-style-type: none"> <input type="checkbox"/> (Mass of 5 H₂O / Mass of CuSO₄ + 5H₂O) x 100 <input type="checkbox"/> Substitution <input type="checkbox"/> 36.08% | | 14 | |

| | | | |
|--|--|---|--|
| <p>4. Percent Error</p> <ul style="list-style-type: none"> <input type="checkbox"/> $(\text{Actual} - \text{Theoretical}) / (\text{theoretical}) \times 100$ <input type="checkbox"/> Substitution <input type="checkbox"/> Boxed answer with % units <input type="checkbox"/> All quantities include appropriate units <input type="checkbox"/> All calculations are clearly labeled and easy to understand | | | |
| <p>Analysis – this is the MOST important part</p> <ul style="list-style-type: none"> <input type="checkbox"/> Minimum 1 paragraph (4 sentences) <input type="checkbox"/> Correct spelling and grammar <p>Student must reference each of the following:</p> <ul style="list-style-type: none"> <input type="checkbox"/> What did he/she learn from the experiment? <input type="checkbox"/> Discuss a likely sources of error <input type="checkbox"/> How would error affect result (specifically) <input type="checkbox"/> Proud or disappointed in result? <input type="checkbox"/> Did they enjoy the experiment? | | 7 | |
| <p>Presentation</p> <ul style="list-style-type: none"> <input type="checkbox"/> Well-organized, sections clearly labeled <input type="checkbox"/> Neat, legible writing <input type="checkbox"/> Table of contents includes information <input type="checkbox"/> Page numbers included <input type="checkbox"/> Lab is written in ink <input type="checkbox"/> Errors properly crossed out, no white out <input type="checkbox"/> Writes on one side of the page only | | 3 | |

Total points earned: _____ / 40

(Don't forget to record 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:

▪

▪