## Acidity of Beverages Peer Grading Rubric

Whose lab report are you grading? $\qquad$
Grader's Name $\qquad$ Date $\qquad$ Period $\qquad$
***Take off at least one point for each box that is not checked in the table below.

| Requirements | Earned Points | Possible Points | Comments |
| :---: | :---: | :---: | :---: |
| Heading <br> - Date of experiment <br> - Lab partner(s) <br> - Experíment Title |  | 3 |  |
| Pre~Lab <br> - Purpose <br> Background Knowledge (6 pts) 1. a. $\mathrm{C} 6 \mathrm{H} 8 \mathrm{O} 7+3 \mathrm{NaOH} \rightarrow 3 \mathrm{H} 2 \mathrm{O}+\mathrm{Na} 3 \mathrm{C} 6 \mathrm{H} 5 \mathrm{O} 7$ <br> b. $\mathrm{H}_{3} \mathrm{PO} 4+3 \mathrm{NaOH} \rightarrow \mathrm{Na}_{3} \mathrm{PO} 4+3 \mathrm{H} 2 \mathrm{O}$ <br> c. $\mathrm{H}_{2} \mathrm{CO} 3+2 \mathrm{NaOH} \rightarrow \mathrm{Na}_{2} \mathrm{CO} 3+2 \mathrm{H}_{2} \mathrm{O}$ <br> - 2. True concentration precisely known; 0.100 M NaOH . <br> - 3. Labeled drawing of setup <br> - 4. Avoid contaminating and/or diluting the standard solution <br> - $\quad 5.23 .45 \mathrm{~mL}$; burettes are read from the top down <br> - 6. pH on the $y$-axis vs. volume of titrant (in mL ) on the $x$ axis <br> Materials <br> - Bulleted list <br> - Accurate <br> Safety <br> - Comprehensive <br> Protocol <br> - Imperative <br> - detailed enough to follow <br> - numbered steps |  | 13 |  |
| Observations <br> - 2-3 complete sentences explaining qualitative observations <br> - Indicates what the student did to cause the observed result |  | 2 |  |
| Data <br> - Data Table ( $-1 / 2$ point if no title) <br> - $0-40 \mathrm{~mL} \mathrm{NaOH}$ for each beverage <br> a pH for each beverage |  | 3 |  |
| Data Processing <br> 1. Titration Curves <br> - Created in a computer program (3 poínts) <br> - Appropriate Titles - include beverage name and "titration curve" (computer generated) (3 points) |  | 23 |  |



Total points earned: $\qquad$ 160
Write two things the student did well in this lab report:
-
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Write two things that the student could do to improve the lab report:
-
-

