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| **Description** | **2** | **6** | **8** | **10 - Exemplary** |
| ***Title, Date, and Purpose*** | Student is missing one or more of required information. |  | Student has required information but purpose is not accurate. | **All guidelines are met as requested.** |
| ***Procedure*** | Procedure is not easily understood, or too vague. |  | Procedure does not concisely state the experimental procedure. Too much info provided by student. | **A person who understands chemistry can easily understand what you are doing in your brief description.** |
| ***Data*** | Student transfers all tables but data is not logically displayed or poorly reported, or lacks proper units. | All data tables and charts are transferred into report and labeled clearly with proper units. | All data tables and charts are transferred into report and labeled clearly w/ correct sig figs and units properly labeled | **All data tables and charts are transferred into report and labeled clearly w/ correct sig figs and units properly labeled. Data is also clearly organized** |
| ***Calculations and Graphs*** | Some calculations are missing and or graphs are not present (if applicable). Or, calculations are very inaccurate. Or, calculations are not easy to follow along with. | All calculations are clearly displayed and are very easy to follow along with values properly displayed. **Some calculations are inaccurate.** Graph data may or may not be reasonably scaled. | All calculations are clearly displayed and are very easy to follow along with values properly displayed. Calculations are accurate. Graphs are displayed but not reasonably scaled or labeled. | **All calculations are clearly displayed and are very easy to follow along with values properly displayed. Calculations are accurate. Graphs are reasonably scaled and properly labeled (if applicable).** |
| ***Conclusion*** | Statement is not reasonable. Or, no data is provided to back up statement. | A reasonable statement is provided with little or not supporting evidence from data collected. | A reasonable statement is made concerning what the student concluded from the experiment. **Data provided does not support their conclusion statement.** | **A reasonable statement is made concerning what the student concluded about the experiment and backs up statement with concrete data from experiment.** |
| ***Discussion of Theory*** | Information missing or discussion is grossly inaccurate. |  | Theory(s) correctly stated however student fails to show how their experiment relates to theory(s) | **Student correctly identifies theory(s) demonstrated in experiment, incorporates appropriate data from experiment in discussion, expresses how purpose of the experiment was fulfilled, states whether or not the experiment worked with explicit examples.** |
| ***Experimental Sources of Error*** | Errors not reasonable reported for an advanced HS chemistry student. | All errors are reported. All examples of errors not provided. |  | **All errors are reported with explicit data examples to support claims.** |
| ***Questions (Pre & Post Lab)*** | Three or more questions are inaccurately answered. | Two questions are inaccurately answered. | One question is inaccurately answered. | **All** Questions are accurately answered. |
| ***Totals:*** |  |  |  |  |