**Oil Spill Lab Rubric**

*Learning Objective: I can plan and conduct a scientific investigation.*

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| **Section** | **Mastery (4.5-5.0)** | **Superior (3.5-4.4)** | **Proficient (2.5-3.4)** | **Novice (1.5-2.4)** | **Insufficient (0-1.4)** |
| **Title** | Creates own Title that is descriptive of the lab (includes independent and dependent variables) |  | Simple title without both variables. |  | No Title |
| **Hypothesis** | Hypothesis is in the correct “If… then… because…” format and includes the independent and dependent variables. |  | Hypothesis has both variables but is in the wrong format. |  | Hypothesis is absent. |
| **Experimental Procedure** | Procedure is described in a thorough, sequential manner that is clear and easy to read. Important details help the reader to smoothly recreate the lab. Diagrams enhance the reader’s understanding. | Procedure is correctly listed in a step-by-step manner. With a minimum of effort, the reader should be able to recreate the lab. | Procedure is mostly present in a step-by-step manner. However, important pieces may be missing, and it may take some effort to recreate the lab. | Procedure is not listed in an easy-to-follow manner. Key parts of the experiment are not explained, so that it would become difficult to recreate the lab with similar results. | Procedure is incomplete and not sequential. Little explanation is offered in each step. Recreating the lab would be very difficult or not possible. |
| **Data Table and Analysis** | Data table is correctly setup and neat. All data is recorded including % oil absorbed.  All relevant data is graphed correctly using Sheets and labeled accordingly. | Data table is correctly setup and all data is recorded.  Data is graphed using sheets but may be missing key components like labels. | Data table is messy or incomplete. Results are given, but it takes some effort to find them.  Attempted effort to graph results but is incorrect or lacking information. | Results may be present, but are not clearly stated and may be difficult to find.  Data is not graphically represented. | Results are not recorded, data table missing. |
| **Conclusion** | All conclusion questions are answered in an insightful and scientific manner, and makes significant connections to real life situations. Student makes additional connections to other labs, content, or notes. Errors are analyzed for their possible effect on the results. | All conclusion questions are answered in a satisfactory manner. Student might not discuss possible real life implications. Student comments on possible errors but might not make additional connections to other labs, content, or notes. | Questions are answered, but are brief and provide little insight beyond the basics of the experiment. Little to no discussion is offered as to connections to other labs, content, or notes. | Not all conclusion questions are answered or all questions are given unsatisfactory answers. No further discussion is provided beyond the basics of the experiment. | No effort is made to answer the conclusion questions or answers include incorrect answers. |