Science Project Topic Outline (Requirements):

a. State the problem

b. Information

c. Hypothesis

d. Experiments

e. Results

f. Conclusions

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|  | **Grades K-2** | **Grades 3-5** |
| **Problem** | Is the investigation guided by a question? | States problem as a question, provides evidence that it comes from the students personal interests or experiences, and represents a genuine learning opportunity for student |
| **Information** | Data connecting the research to the problem is present | Cites 2 or more different sources. Student clearly connects the research to their problem in their own words |
| **Hypothesis** | Hypothesis is brief and complete, testable and shows a connection to the research | Hypothesis is brief and complete, testable and clearly addresses the stated problem. Students show a direct connection to the research |
| **Experiments** | Is there evidence that an experiment was conducted? Was proper equipment used (such as rulers, scales, thermometers used to help collect data) | Experimental design is well constructed test of stated hypothesis. Procedures are outlined in a step-by-step fashion that could be followed by anyone without additional explanations. All materials are listed. |
| **Results** | Are the data described and/or summarized? | Performed experiment several times. Summarizes the data in a way that describes what was discovered using graphs and charts with no errors or omissions. Discusses connections between variables or points out patterns. |
| **Conclusions** | Is there an attempt to relate the results to the problem/question? | Conclusion completely answers all aspects of the problem, states if the hypothesis was supported or rejected and clearly cites evidence to explain why. |
| **Visual Quality of Display** | Is the project presented in a manner that makes the purpose, procedure and results clear? | Project is appealing and neat, and is readable. It is well organized and clear. Use of language and spelling is correct. |