## Scientific Paper Checklist

Cover Page (0)
Cover Page (2)
Title informative, specific and concise (1)
Authors first and last names (1st author/investigator, last author/principle investigator) (1)
Table of Contents (include page numbers) (1)
Abstract (2-3 sentences for each) (overall summary of whole research) (4)
summary of objectives (background information or past studies that led to this study)
summary of methods
summary of results
summary of conclusion/discussion
Introduction (4)
summary of pertinent literature on topic (general knowledge to specific) (footnote references)
research problem identified clearly
rationale for study (reason why you wanted to do this research)
hypothesis (educated guess) gives answer to problem
Materials and Methods (4)
informative and specific (what your doing, where your doing it, when doing it, how your doing it)
materials used
methods of collection of data
diagrams and/or explanations of set up, flow charts
Results (6)
qualitative (descriptive) and quantitative (numbers) data (1)
data tables (Tables) (3)
tables labeled as "tables" and graphs labeled as "figures" (1)
summary of findings using text (explain what happened in graphs & tables, save why for discussion)(1)
2 Graphs (8)
labeling of axis (units)
points plotted accurately
appropriate title (The Effect of <i>X-axis</i> upon the <i>Y-axis</i> )
legend/keys/explanation of tables or figures
Discussion (8)
support or reject original hypothesis and why? (1)
interpret results using evidence(stating actual data by citing figures, tables & references)(2)
explain major findings, patterns or trends in the graphs or tables (2)
suggest explanations of conflicting, problematic or unexpected results (reason for error)(1)
further investigations you could or might want to do (1)
what you learned and how this relates to 3 of the Nebraska State Science Standards (1)
References and Acknowledgements page (1)
Typed, 12 font, arial, double spaced, 2 returns after each heading (1)
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Followed 6 writing traits (6)
Ideas & Content - purpose is clear, knows about the topic, paper is memorable and uses
lively, important details, main idea is well developed
Organization - writing is carefully organized with effective and varied transitions;
introduction grabs the reader's attention; ending is satisfying or surprising; events, details, and
paragraphs are clearly placed where they belong
Voice - writer's personality comes through the writing in a special way, voice suits his/her
audience and purpose, voice is lively and shows confidence
Word Choice - writing contains a variety of strong and carefully selected words, words
create strong detailed pictures in the reader's mind
Sentence fluency - Creative sentences of different kinds, lengths, and flow, making the
writing enjoyable to read
Conventions - few errors in capitalization, punctuation, spelling, and grammar, easy to read
Table 1 of 45 acts (
Total out of 45 points