

Screening of Project Synopsis

Number:

Project Title:

_____ 1.0 **Introduction of Problem** (20 points)

- 1.1 Demonstrates clear understanding of applicable principles and processes
- 1.2 Defines Rationale and Purpose
- 1.3 Hypothesis clearly stated and supported by sources
- 1.4 Proper citation of references within paper

_____ 2.0 **Experimental Design** (15 points)

- 2.1 Manipulated/Independent Variable
- 2.2 Levels of Independent Variable
- 2.3 Control Group, if applicable
- 2.4 Repeated Trials
- 2.5 Responding/Dependent Variable
- 2.6 Constants

OR: Appropriate design for atypical experiments such as math, engineering, case studies, correlations, etc.

Comments _____

_____ 3.0 **Procedure** (15 points)

- 3.1 All Materials/Equipment Included
- 3.2 Clear, Precise, Replicable
- 3.3 Appropriate Safety

_____ 4.0 **Analysis of Data** (15 points)

- 4.1 Appropriate tables and graphs such as bar, line, scatter plots, etc.
- 4.2 Appropriate statistical analysis for experiment and age of learners

_____ 5.0 **Discussion and Conclusion** (20 points)

- 5.1 Major Findings
- 5.2 Support for Hypothesis
- 5.3 Comparisons with Research (including proper citations)
- 5.4 Explanation
- 5.5 Improvements/Suggestions for Other Research

_____ 6.0 **Creativity, Appropriateness, Scientific Validity** (10 points)

- 6.1 Creativity
- 6.2 Appropriateness
- 6.3 Validity

_____ 7.0 **Bibliography** (5 points)

- 7.1 Acceptable (at least 5 **major** sources)

_____ **Total**

_____ Does not meet criteria for Metro Richmond Science Fair

General Comments
