

## Screening of Project Synopsis

Number: \_\_\_\_\_ Project Title: \_\_\_\_\_

\_\_\_\_\_ 1.0 **Title** ( 2 points )

\_\_\_\_\_ 2.0 **Introduction of Problem** ( 13 points )

Demonstrate clear understanding of applicable principles and processes

2.1 Rationale

2.2 Purpose

2.3 Hypothesis

\_\_\_\_\_ 3.0 **Experimental Design** ( 20 points )

3.1 Manipulated/Independent Variable

3.2 Levels of Independent Variable

3.3 Control Group

3.4 Repeated Trials

3.5 Responding/Dependent Variable

3.6 Constants

**OR** Appropriate design for atypical experiments such as case studies, correlation, etc.

Comments \_\_\_\_\_

\_\_\_\_\_ 4.0 **Procedure** ( 15 points )

4.1 All Materials/Equipment Included

4.2 Clear, Precise, Replicable

4.3 Appropriate Safety

\_\_\_\_\_ 5.0 **Analysis of Data** ( 15 points )

5.1 Appropriate measures of central tendency such as mean, median, mode

5.2 Appropriate measures of dispersion/variation such as range, frequency distribution, histogram, stem-leaf, variance/standard deviation, box plots

5.3 Appropriate graphs such as bar, line, scatter plots, etc.

5.4 Appropriate statistical analysis for experiment and age of learners

\_\_\_\_\_ 6.0 **Conclusion** ( 20 points )

6.1 Major Findings

6.2 Support for Hypothesis

6.3 Comparisons with Research

6.4 Explanation

6.5 Improvements/Suggestions for Other Research

\_\_\_\_\_ 7.0 **Creativity, Appropriateness, Scientific Validity** ( 10 points )

7.1 Creativity

7.2 Appropriateness

7.3 Scientific Validity

\_\_\_\_\_ 8.0 **Bibliography** ( 5 points )

8.1 Acceptable

\_\_\_\_\_ **Total**

\_\_\_\_\_ Does not meet criteria for Metro Richmond Science Fair

**General Comments** \_\_\_\_\_

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