

Maercker School District 60 Science Fair Experiment Evaluation Form

Project Number: _____

Judge: _____

Name: _____

Partner Name: _____

PART 1: SCIENTIFIC METHOD – 30 points maximum

Scale: 5-outstanding 4-excellent 3-good 2-satisfactory 1-non-satisfactory

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|---|----|---|---|---|---|
| I. Question | .1 | 2 | 3 | 4 | 5 |
| Question/Problem is well-defined | | | | | |
| | | | | | |
| II. Experiment Design | .1 | 2 | 3 | 4 | 5 |
| <ul style="list-style-type: none"> • Hypothesis is clearly defined and answers question • Overall design involves a scientifically valid plan and appropriate control | | | | | |
| | | | | | |
| III. Methods/Procedure | 1 | 2 | 3 | 4 | 5 |
| Methods/Procedure are logical, easy to follow and appropriate to test hypothesis | | | | | |
| | | | | | |
| IV. Results | 1 | 2 | 3 | 4 | 5 |
| <ul style="list-style-type: none"> • Experiment includes a control and one or more appropriate variables. • Test is repeated an appropriate number of times. • Data collected is numerical, accurate and reliable; metric units are used. • Results relate directly to the hypothesis and are presented clearly via graphs, tables and/or pictures. | | | | | |
| | | | | | |
| V. Conclusions | 1 | 2 | 3 | 4 | 5 |
| <ul style="list-style-type: none"> • Logical conclusion is drawn from the data. • Conclusions are clearly and concisely presented. • Data supports the conclusions. • Conclusions answer the hypothesis. • | | | | | |
| | | | | | |
| VI. Other | 1 | 2 | 3 | 4 | 5 |
| <ul style="list-style-type: none"> • Age-appropriate background information used. • Represents student(s) own work. • Student(s) show enthusiasm and thorough understanding of material. • For team projects – all students show equal knowledge of and participation in project. | | | | | |

PART 2: Display – 5 points maximum

Scale: 5-outstanding 4-excellent 3-good 2-satisfactory 1-non-satisfactory

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|---|---|---|---|---|---|
| I. Project Display | 1 | 2 | 3 | 4 | 5 |
| <ul style="list-style-type: none"> • Display board is neat and organized • Spelling is correct. • Includes graphs, tables and/or pictures as appropriate. • Display was done by student (with adult assistance where grade-appropriate) | | | | | |

Continued on back

PART 3: Oral Presentation – 10 points maximum

Scale: 5-outstanding 4-excellent 3-good 2-satisfactory 1-non-satisfactory

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I. Presentation.....1 2 3 4 5

- Clear presentation and concise summary of project.
- Student(s) show enthusiasm for work.

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II. Student Knowledge.....1 2 3 4 5

- Student(s) understand their project and the results.
- Student(s) are able to answer questions about their project and discuss related ideas.

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PART 4: Written Report – 20 points maximum

Scale: 5-outstanding 4-excellent 3-good 2-satisfactory 1-non-satisfactory

I. Completeness/Spelling/Grammar.....1 2 3 4 5

- Report has proper spelling and grammar.
- Report has required parts:

- | | |
|----------------------------------|---------------------|
| • Title page | • Procedure/Methods |
| • Table of contents & pagination | • Results |
| • Question | • Conclusions |
| • Hypothesis | • References |
| • Materials | • Acknowledgments |

II. Explanation of Problem & Literature.....1 2 3 4 5

- Report has clear explanation of the question the experiment is answering.
- Grade-appropriate literature was used as background material.

•
III. Procedure and Materials.....1 2 3 4 5

- All materials used are clearly listed and/or described.
- Report includes a detailed, easy to follow description of the procedure.

•
IV. Results.....1 2 3 4 5

- Results section is organized, quantitative and concise.
- The report includes graphs, tables and/or pictures to help the reader understand what happened.

TOTAL: BOTH PAGES (65 Points Maximum)

- Award Scale (average of 2 judges):
 - ≥59 = Outstanding Gold
 - 52-58 = Outstanding
 - 46-51 = Very Good