

Div C Experimental Design Report

Part 1 : Design and Construction of the Experiment

Time: 20 minutes

Competition: _____ Date: _____

School: _____ Team Number: _____

Student: _____

Student: _____

Student: _____

FINAL SCORE

Team Kits: Each team may bring in:

- ☐ 1 linear measuring device
- ☐ 1 timing device
- ☐ 1 calculator of any kind
- ☐ 3 goggles

Tie Breaker Order

K. Analysis of Claim/Evidence/Reasoning
E. Procedure and Set-Up Diagrams
C. Variables
G. Data Table
H. Graph

Penalty Scores: Multiply to Total Score

Circle all that apply

- | | |
|---------------|--|
| $x .95$ | Follow clean-up procedures before the end of the event |
| $x .95$ | Use at least 2 of the provided materials |
| $x .25$ | Collect data by experimenting on-site or falsified /made up data |
| $up to x .75$ | Addressed the assigned question/topic area |



Blank sheet for event supervisor
to insert a prompt and any other
necessary background information.

A Statement of Problem

B Hypothesis

C Variables

Independent Variable (IV)

Dependent Variable (DV)

Constant Variable

D Experimental Control (Standard of Comparison)

E Materials

F Procedure and Set-up & Diagrams

G Qualitative Observations

Set-Up

Procedure

Results

H Quantitative Data

Raw Table

Condensed Table

Div C Experimental Design Report

Part 2: Data, Analysis, and Conclusions

Time: 30 minutes

Experimental Design Report - Part 2

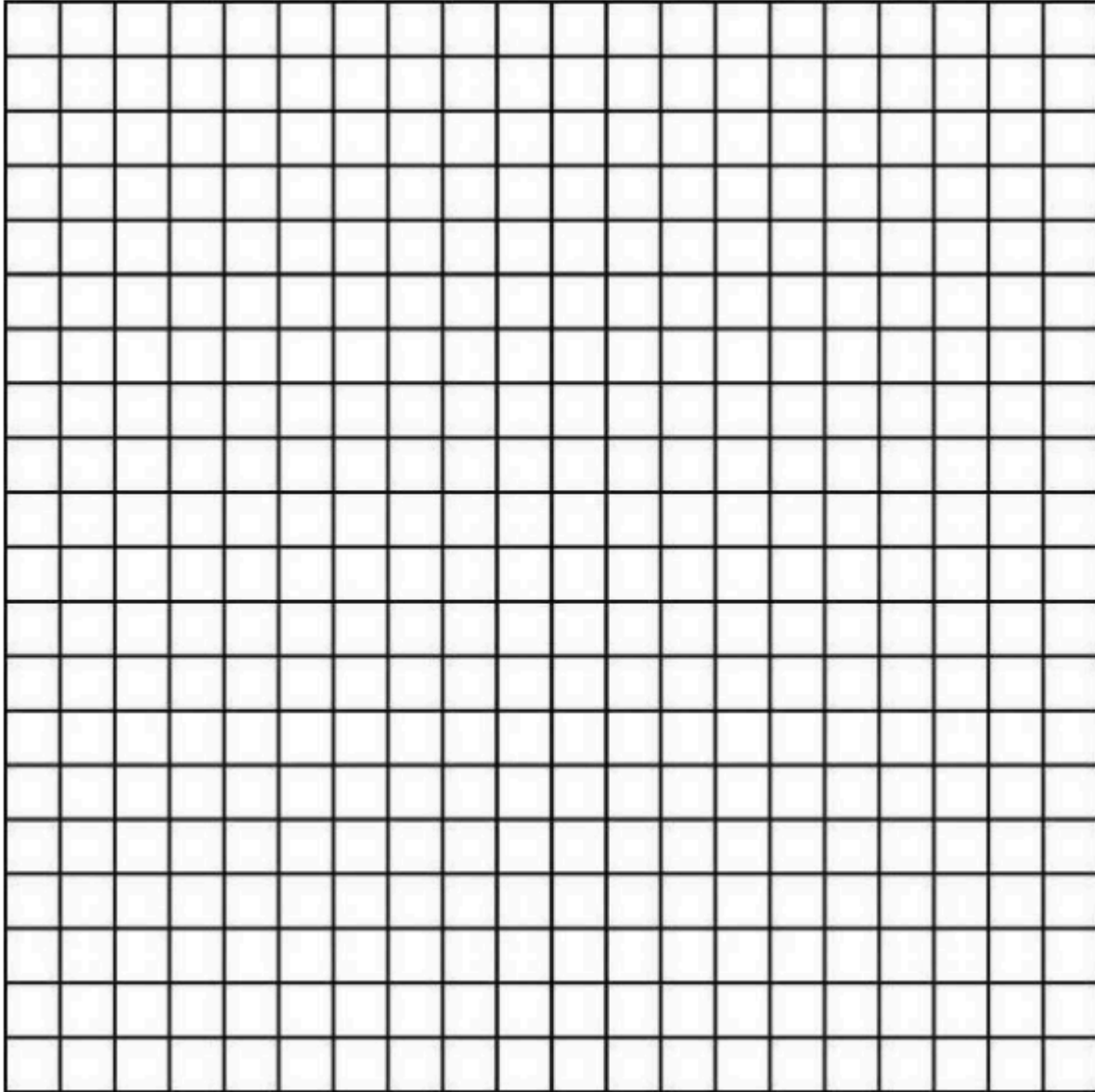
Data, Analysis, and Conclusions

Time: 30 minutes

School: _____

*Team Number: C*_____

I Graph



J Statistics

Central Tendency

Statistic #1

Statistic #2

Statistic #3

Variation

Statistic #1

Statistic #2

Statistic #3 (State/Nationals only)

Statistic #4 (State/Nationals only)

K Possible Experimental Errors

Error 1

Error 2

L Analysis of Claim/Evidence/Reason

Data Trend

Claim

Evidence

Reasoning

Outliers

Claim

Evidence

Reasoning

L **Analysis of Claim/Evidence/Reason - *continued***

Variation: State/Nationals only

Claim

Evidence

Reasoning

M **Conclusion**

Hypothesis Restated

Claim: Accept or Reject Hypothesis

Evidence

Reasoning

N Improvement, Applications & Recommendations for Further Use

Improvements for the Current Experiment

Practical Applications

Future Experiments

O Abstract - *States/Nationals only*
