

Experimental Design

Div C

School: _____

student: _____

student: _____

student: _____

Part 1

Design & Construct Experiment

Time: 20 minutes

Cover Sheet

FOR SUPERVISOR ONLY

Lab Equipment being utilized during experiment:

YES NO

Supervisor Notes: (optional)

EQUIPMENT CHECKLIST

circle any MISSING item(s)

1x measuring device

1x timing device

1x calculator of any kind

3 x goggles

(Page 2 Insert the Supervisor Prompt for Experiment & Background information -delete this before printing)

(Note: Single sided copies are recommended when printing this form - delete this before printing)

(Note: Recommended to **NOT** staple the pages together making it easier for teams work on different sections – delete this before printing)

A. Statement of Problem

B. Hypothesis

C. Variables

Independent Variable (IV)	Dependent Variable (DV)	Controlled Variables (CV)
		1. 2. Constants
		1. 2.

D. Experimental Control

E. Materials

F. Procedure and Set-up diagrams

G. Qualitative Observations

	Before	During	After
Procedure			
Results			

H. Quantitative Data - Raw & Condensed Data Tables

School: _____

student: _____

student: _____

student: _____

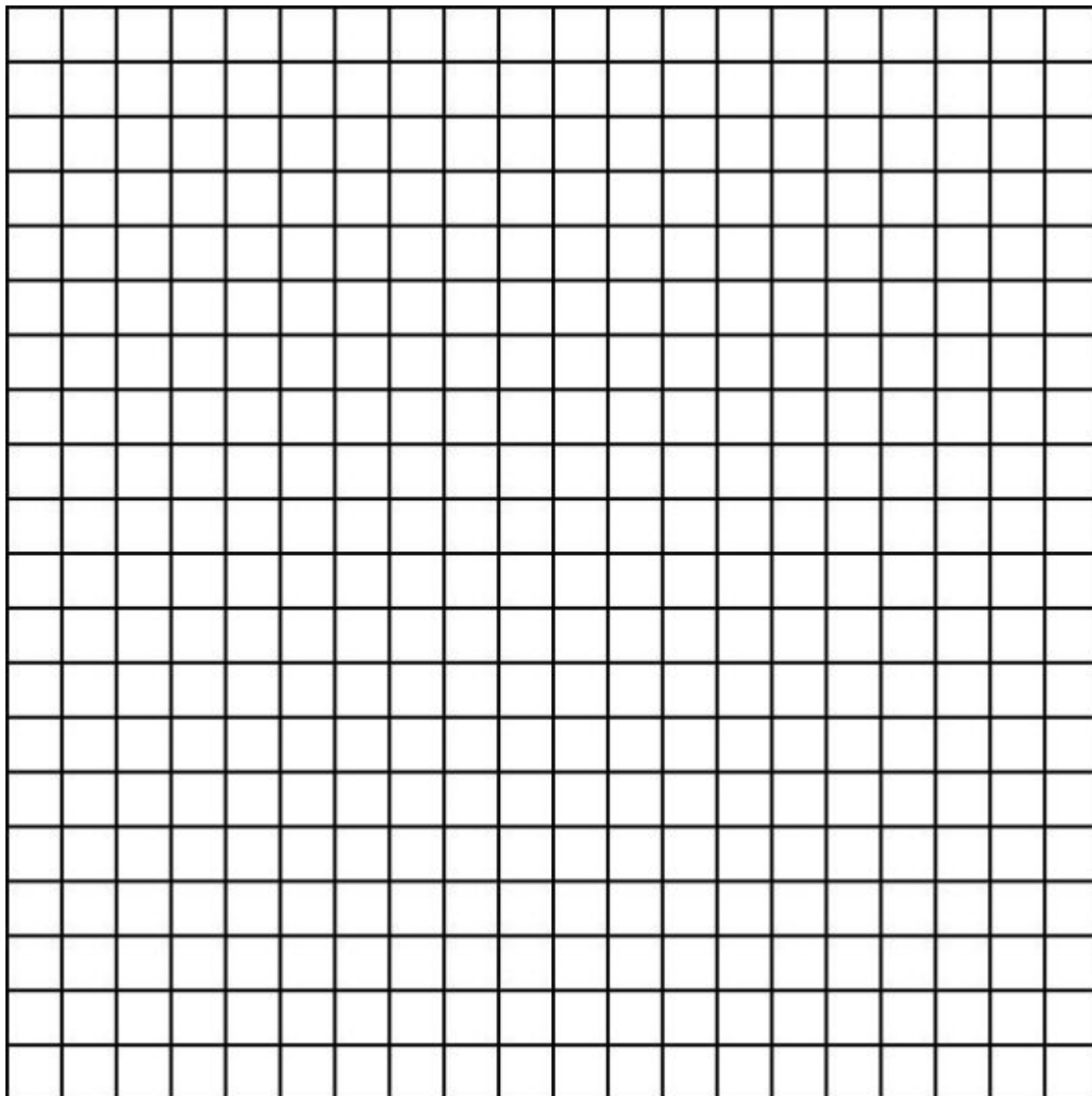
Part 2

Part 2: Experimental Write Up

Time: 30 minutes

Cover Sheet

I. Graph



J. & K. Statistics - Central Tendency & Variation with sample calculations

L. Analysis of Data

STATISTICS	
CLAIM	
EVIDENCE	
REASON	

OUTLIERS	
CLAIM	
EVIDENCE	
REASON	

DATA TREND	
CLAIM	
EVIDENCE	
REASON	

M. Possible Experimental Errors

	Specific Error Identified	Specific Effect on Results
Error 1		
Error 2		

N. Conclusion

Hypothesis Restated:	
Hypothesis is Evaluated	
Claim <i>Acceptance or Rejection of Hypothesis</i>	
Evidence	
Reason	

O. Recommendation for Future Experimentation

P. Abstract