

Experimental Design

Div. B

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 non-programmable non-graphing calculator

3 x goggles

Division B

Team #:

(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. Constant
		1.

D. Materials

E. Procedure and Set-up Diagrams

F. Qualitative Observations

	Before	During	After
Procedure			
Results			

G. Quantitative Data - Raw & Condensed Data Tables

School:

student:

student:

student:

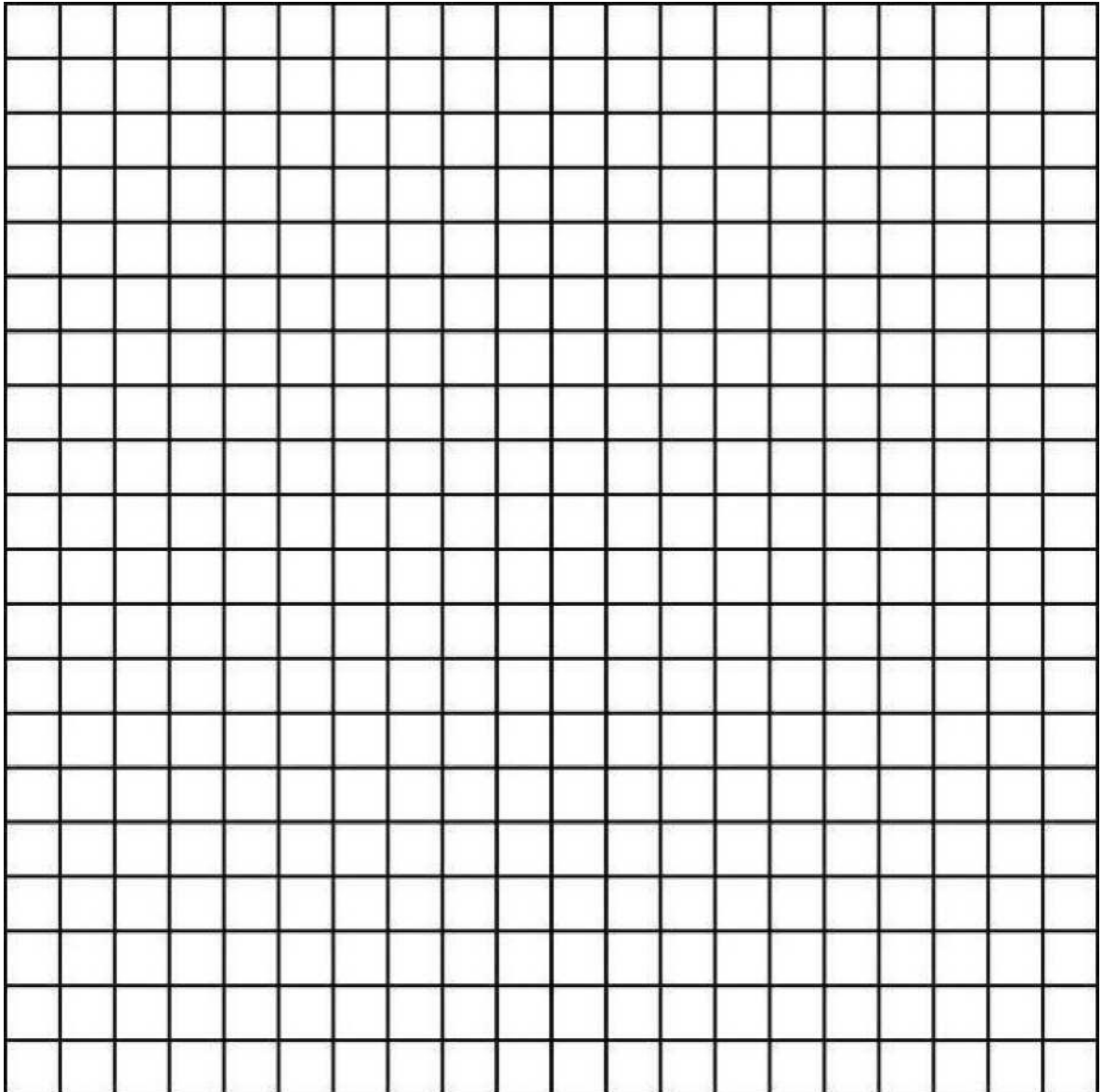
Part 2

Part 2: Experimental Write Up

Time: 30 minutes

Cover Sheet

H. Graph



I. Statistics - Central Tendency & Variation with sample calculations

J. Analysis and Interpretation of Data

VARIATION	
CLAIM	
EVIDENCE	
REASON	

OUTLIERS	
CLAIM	
EVIDENCE	
REASON	

DATA TREND	
CLAIM	
EVIDENCE	

Division B

Team #:

REASON	
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K. Possible Experimental Errors

	Specific Error Identified	Specific Effect on Results
Error 1		
Error 2		

L. Conclusion

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

M. Recommendations for Future Experimentation