Experimental Design

School Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Partner 1\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Partner 2\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Partner 3\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

You are provided with 1-meter stick and 2- tennis balls. At the common area you can find blank computer paper, tape, and scissors. If any materials are missing inform a judge immediately. You should have with you a timepiece, a linear measuring device, and a non-programmable non-graphing calculator. You may use these materials if you’d like.

Instructions: You have 50 minutes to design, conduct, clean-up, and write-up an experiment of any type using the materials provided and/or available. How you use the materials is of your choosing.

Only write on the front of each page. If needed you may add additional pages where needed.

You have been given sheets of paper to write up your experiment. If you need more, extra sheets are available at the common desk. Use the sheets below with the labeled outline (points noted in parentheses) to conduct your task.

Statement of Problem (4)

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Hypothesis (8)

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Variables

IV(6), DV(6), CV(8)

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Experimental Control (4)

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Materials (6)

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Procedure (12)

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Procedure (continued)

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Qualitative Observations (8)

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Quantitative Data (12)

Quantitative Data (continued)

Graphs (10)

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Statistics (6)

Statistics (continued)

Analysis and Interpretation of Data (8)

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Possible Experimental Errors (6)

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Conclusion (8)

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Applications and Recommendations for Further Use (8)

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