***CONTROLLED EXPERIMENT: Science Fair: Research Design***

***Part 2 (detailed plan) (Due: Oct ???, 2018)***

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In one or two sentences, state your ***Research Question***:

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**Hypothesis:** What do you think the results might be? Explain your reasons (why do you think the results might turn out this way?)

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**Experimental design:** Explain***in detail*** the procedures you will follow in order to test your hypothesis. Describe and explain every step, including:

1. Preparation of experiment
2. set-up of equipment
3. control and experimental groups
4. Dependent and independent variables
5. sample size
6. strategies for collecting quantitative and qualitative data
7. strategies for analysing data
8. method and format for reporting results, etc.

Make sure that the data you collect and your analysis processes are relevant to the research question and hypothesis that you are exploring!

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Draw a **diagram** of your experimental set-up:

What is the ***control group*** in your experiment?

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What is the ***experimental group*** in your experiment?

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Which measured variable is the ***Dependent Variable*** in your investigation?

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Which measured variable is the ***Independent Variable*** in your investigation?

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List the variables (factors) that you need to keep **constant**:

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**Measurement and Observations:**

***Quantitative Observations:*** What quantities will you measure, in order to explore your **research question**?

***Qualitative Observations:*** What **other observations** will you make?

***What equipment*** will you need?