

RESET

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RESEARCH PROPOSAL 2015/2016**DUE DATE: WED., NOVEMBER 19, 2015****COMPLETE ALL 3 (THREE) PAGES.**

Before starting a research project, a proposal must be submitted so that your project meets all requirements and guidelines of proper research. Your proposal will be submitted under the headings below. This proposal is interactive which means you will type directly on the form to provide the information needed. You will then print out the form.

DO NOT complete by hand. Print a copy for your records. TO SAVE, SAVE TO YOUR COMPUTER AS A BLANK COPY, THEN FILL IT OUT. **THIS FORM MUST BE COMPLETED PRIOR TO STARTING THE EXPERIMENTATION.**

Student's Name (Last, First, Middle):

Period: 6 7 8 Grade: Freshman Sophomore Junior Senior

Proposed Project TitleCategory:

Animal Sciences

Behavioral & Social Sciences

Biochemistry

Cellular and Molecular Biology

Chemistry

Computer Science

Earth Science

Engineering

Energy & Transportation

Environmental Science

Mathematics

Medicine & Health Sciences

Microbiology

Physics and Astronomy

Plant Sciences

Indicate if your project involves the following (check "YES" or "NO" for each). The page number refers to the page in the INTEL Rules and Guidelines Booklet. Refer to the booklet to get a description of each. The full booklet is at the website: <http://www.societyforscience.org/Document.Doc?id=10>

YES	NO	Human Subjects	P. 7
YES	NO	Vertebrate Animals	P. 10
YES	NO	Potentially Hazardous Biological Agents	P. 13
YES	NO	Hazardous Chemicals	P. 17
YES	NO	Hazardous Devices	P. 17
YES	NO	Radiation	P. 17
YES	NO	Prescription Drugs	P. 17
YES	NO	Alcohol and tobacco	P. 17

Is this a continuation of a previous project? YES NO

Problem Statement or Scientific Question to be Answered:

Independent variable(s): List the factor(s) that you will control or manipulate. If more than one, put a star *in front of* the one(s) that will most likely be relevant to your research.

Dependent variable(s): List the factor(s) that respond to the control or manipulation. These factors produce collectable data.

Control (if applicable): Describe the standard of comparison you will use to assess experimental effects.

PRESS BUTTON TO GO TO PAGE 2

Your Hypothesis/Engineering Goal: Formulate one or more statements that predict the possible outcome(s) of your research. These statement(s) should describe how changing the independent variable will affect the dependent variable.

Rationale and Justification Make a personal statement of why this problem is of interest (the “SO WHAT?” factor). If using vertebrates as test subjects, justify their use and explain the humane manner in which they will be treated. *No vertebrates may be sacrificed for the sake of research.*

Number of Samples/Trials:

Expected Results:

Location of Your Research Work:

Special Requirements: If performing your research at a site other than school or home, state how you expect to travel to your research site. Will a parent or guardian be driving and have they agreed to transport you as necessary? Are there any other special requirements that you will need or anticipate?

Mentor information: If you are working with a mentor, give the following information:

Mentor's name: _____

Title: _____

Phone number: _____

E-mail: _____

Give me a brief outline about how you made contact with your mentor and how a working relationship developed that led to your working with your mentor.

PRESS BUTTON TO GO TO PAGE 3

Procedure: Use numbers to indicate the sequential steps of your procedure. Include the materials and equipment, specifying quantities, concentrations, amounts, time, etc. ***THIS SECTION SHOULD BE SO DETAILED THAT ANOTHER PERSON SHOULD BE ABLE TO DO THIS RESEARCH FOLLOWING YOUR DIRECTIONS. IT IS LIKE A LAB MANUAL THAT YOU USE IN CHEMISTRY, BIOLOGY, OR PHYSICS.*** Be as specific as possible, yet recognize that changes are likely to occur. Include the length of time the experiment or field research will take.