Science Inquiry Project Proposal **DUE January 22**

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**B. Topic Choices** Did you: (Please check)

* Go to [www.sciencebuddies.org](http://www.sciencebuddies.org)? It’s a great place to start! Try the “Topic Selection Wizard” and the computer will choose a best fit for you!
* Choose something you are truly interested in?
* Consider the time of year? (eg. If you need to be outside to collect data, do it before the snow hits!)
* Check you have ONE independent variable (one factor you are testing)?
* Check you have a dependent variable (MUST be able to MEASURE it)?
* Determined if it’s possible to control the necessary variables in order to make it a fair test?
* Check that your variables work! Fill in the blanks and make sure it makes sense!

How does \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ affect \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_?

 Independent Variable Dependent Variable

**C. Big No-Nos** My project has: (Please check)

* No consumption of caffeine drinks (eg. no energy drink testing)
* No cruelty to humans (eg. sleep deprivation) or vertebrate animal subjects
* No explosives, firearms, weapons, pesticides, or hazardous (including biological) materials
* No surveys of preference (eg. Which is better, Coke or Pepsi?)
* Nothing blatantly obvious (eg. Do plants grow better in light or dark?)

**Project Summary:**

|  |  |
| --- | --- |
| **Title of Project** (Try to make it interesting/funny/ creative/catchy) |  |
| **Independent Variable** (What factor are you testing? 1 only.) |  |
| **Dependent Variable** (What are you measuring for your results? What are the units? 1 only.) |  |
| **Control Variables** (What stays the same throughout? List AT LEAST 5. Try for 10.) |  |

1. **What question** are you going to answer? (What is your topic?) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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2. **Why** do you think this is an important topic to research? (Why does it matter? What would it help solve?) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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3. What is your **hypothesis**? (What is your educated guess?) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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4. Before you start your project, you will need to do some background research on your topic. Find three possible resources (books, websites). (NO WIKIPEDIA or “answers.com” type sites.)

a) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

b) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

c) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. What **materials** will you need for your study or experiment? (Be specific – amounts/sizes/cost. Be sure you can afford it and know where they can be found or purchased. SMS cannot provide consumable materials.) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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6. Using numbered steps, outline the **procedure** for your project. How will you get your results? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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7. List the **risks** involved and what **safety precautions** you will take to make this project safe. (Include “**consent forms required**” if you are including human or animal subjects) \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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8. What help will you need from your parents/teacher? (Supplying materials, setting up, etc.)

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9. FOR PARENTS/GUARDIANS:

**IMPORTANT:**

Adult supervision may be required due to safety concerns (depending on project). Please review the chosen topic carefully and ensure all safety precautions are taken. **If you are NOT comfortable with the chosen project, please don’t sign below.** Please visit [www.sciencebuddies.org](http://www.sciencebuddies.org) to help your student choose a more appropriate project.

*#1) I, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, give my student, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_,*

 *Parent Name Student Name*

*permission to do the above science inquiry topic on \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.*

 *Summarize Topic*

*Parent Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*



12. FOR TEACHER:

*I approve of the above science topic and project proposal. Any significant*

*variations in topic or procedure must be discussed with me and reapproved.*

*This sheet must be included in your final science report folder to show*

*you stuck to your approved plan.*

*Teacher Signature: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*