Think Tank

Use this page to write down any ideas or something you wonder about.
Brainstorming

Use this page to take notes from your “Think Tank” session. List questions you have and ideas that you are considering.
Can It Be Tested?

Use this page to determine if your topic or idea will be a good choice for a science fair project. The answers to each question should be YES.

- Can I write a question for my topic?
- Can it be tested?
- Do I have enough time to test it?
- Can I get all the materials I will need?
- Can I afford the materials?
- Is it safe?
- Do I understand it?
- Can it be researched?
- Is it original?
- Am I truly interested in it?

Thoughts...
Narrow it Down

List three testable questions that you are considering working on. Your teacher must approve your final question.

1. __________________________________________
   __________________________________________
   __________________________________________

2. __________________________________________
   __________________________________________

My choice for the project...

Teacher’s Approval - _______________________
Resource Log

Use this page to write down your references as you go. A good project will have a variety of references!

Books, Magazines and Newspapers

Websites (no Wikipedia and Google is not a reference!)

Primary Sources (people that you interview who have knowledge of your topic) Be sure to document the conversation in writing or save a copy of any email responses to include in your journal.
The hypothesis – What you think the answer to the question is going to be. This should be written as an IF, THEN statement. (Example – If I increase the temperature of the water, then more salt will dissolve.)

My Hypothesis –
__________________________________________________________________________
__________________________________________________________________________
__________________________________________________________________________

The variable – This is what you are changing in the experiment for testing. You can have only ONE variable in your experiment. (Example – the temperature of the water)

My Variable –
__________________________________________________________________________
__________________________________________________________________________
__________________________________________________________________________

Constants – These are factors that must all be the same for a fair test (Examples – amount of water, same size containers, same beginning mass of a substance, etc)

My Constants –
__________________________________________________________________________
__________________________________________________________________________
__________________________________________________________________________

Control – This is a sample that is treated the same as all the rest of your samples except that it is not exposed to the variable. You will not always have a control, but when a control is possible, it makes for a better project.

My Control –
__________________________________________________________________________
__________________________________________________________________________
How Will I Test My Question

Use the space below to list the procedures you will follow for your experiment.
Things I can borrow:

1. 
2. 
3. 
4. 

Shopping List

1. 
2. 
3. 
4. 
5. 
6. 
7. 
8. 
9. 
10. 
11. 
12. 
13. 
14.
Data

Use the next three pages to record information and track changes that you make. Remember to record any measurements you make.

Record your data as you go! You can adjust if you need to, but your journal should reflect the entire process, not just your finished information.
Data

Remember to record any measurements you
Data

Remember to record any measurements you make in metrics.
My Charts and Graphs

Use the space below to sketch a bar or line graph. You can also use circle graphs if appropriate for your data. Remember, data should be displayed in at least three ways on your board. (tables, charts, graphs, sketches, or pictures of the experiment are all appropriate)
Discovery Page

Use this page to list your discoveries. You should include the answer (you found from your experiment) to your original question. Think about what your results mean. List any real world applications below.

My results:

My Conclusion (answer to the problem):

Real World Applications: