Four-Month Time Line

Week 1-2

- Think, what do you care about or are you passionate about? Animals, stars, sports? They all have science!
- Begin your Log Book and write something each day from now on about what you are thinking.
- Generate 3 areas of science and ideas or "problems" that you are curious about or wonder about.
- Don't think about the solutions at first, just think about what needs to be done better, faster, or "right".
- Then, narrow down to one favorite topic you would like to explore. Make it a question you want to answer!

Week 3-4

- Start researching the history of your problem, why it is a problem and find out what has already been done.
- Write a report on the Problem and your research.
- Write a statement of the Problem and or a Hypothesis about your question.
- Brainstorm ways to answer your own question by testing new ideas.
- Ask for permission if it involves humans, animals or things that could be dangerous.

Week 5

- Make a list of materials you will need. Define what you mean by certain terms.
- Think of all the variables you CAN control.
- Think of all the variables you just cannot control that might have affected your results, but will discuss at the end just like all good researchers do.
- Write your specific procedures for testing. Plan to do re-trials, re-testing and use enough subjects.

Week 6-12

- Work on your experiment. Collect and record your data.
- Take photos all along the way (but not of peoples' faces).
- Write everything down in your journal, even mistakes and problems.

Week 13-14

- Type the final procedure you actually used and number your steps.
- Organize the data. Write the results you found based on your data.
- Analyze your data (put into charts and graphs and explain each one).
- Form Conclusions based on the data. What did you find as answer to your original question or problem?
- Discuss variables that could have influenced results.

Week 15-16

- Type each section, print graphs and charts and paste all sections on display board. Board example can be found on our website - http://www.yumasupt.org/science-expo.html
- Select a catchy, creative title
- Decorate and add color photos to board.
- Write your final research report.
- Practice being interviewed. Possible interview questions can be found on our website - http://www.yumasupt.org/science-expo.html

Eight Week Time Line

Week 1

- Think, what do you care about or are you passionate about? Animals, stars, sports? They all have science!
- Begin your Log Book and write something each day from now on about what you are thinking.
- Generate 3 areas of science and ideas or "problems" that you are curious about or wonder about.
- Don't think about the solutions at first, just think about what needs to be done better, faster, or "right".
- Then, narrow down to one favorite topic you would like to explore. Make it a question you want to answer!

Week 2

- Start researching the history of your problem, why it is a problem and find out what has already been done.
- Write a report on the Problem and your research.
- Write a statement of the Problem and or a Hypothesis about your question.
- Brainstorm ways to answer your own question by testing new ideas.
- Ask for permission if it involves humans, animals or things that could be dangerous.

Week 3

- Make a list of materials you will need. Define what you mean by certain terms.
- Think of all the variables you CAN control.
- Think of all the variables you just cannot control that might have affected your results, but will discuss at the end just like all good researchers do.
- Write your specific procedures for testing. Plan to do re-trials, re-testing and use enough subjects.

Week 4,5,6

- Work on your experiment. Collect and record your data.
- Take photos all along the way (but not of peoples' faces).
- Write everything down in your journal, even mistakes and problems.

Week 7

- Type the final procedure you actually used and number your steps.
- Organize the data. Write the results you found based on your data.
- Analyze your data (put into charts and graphs and explain each one).
- Form Conclusions based on the data. What did you find as answer to your original question or problem?
- Discuss variables that could have influenced results.

Week 8

- Type each section, print graphs and charts and paste all sections on display board. Board example can be found on our website - http://www.yumasupt.org/science-expo.html
- Select a catchy, creative title
- Decorate and add color photos to board.
- Write your final research report.
- Practice being interviewed. Possible interview questions can be found on our website - http://www.yumasupt.org/science-expo.html