# Scientific Experiment ~ 3rd Grade

A scientific experiment is a component of scientific inquiry. During a scientific experiment students identify questions, formulate and test ideas/hypotheses, use tools, collect and analyze data, describe relationships, and formulate explanations based on evidence.

The following items must be included on the science fair display board:

**Part 1:Title & Question due Nov. 9th Submit the Science Fair Approval Form**

_____ 1. Topic — catchy phrase, statement to grab people's attention

_____ 2. Question & plan — What is your big question? Why did you choose the question?

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**Part 2: Research, Hypothesis, Materials & Procedure due Dec 2nd.**

_____ 3. Research — what did you find that is already known about the topic, use your summary paragraph, what sources did you use

_____ 4. Hypothesis — what do you predict the answer to your question will be

_____ 5. Materials — list all items you will use to conduct the experiment

_____ 6. Procedure — what is your plan for the experiment, what tools/techniques do you plan to use to answer your question **experiments require multiple variables (one controlled and at least two others)**

**Conduct your experiment and create your display board - Dec 2nd—Jan 12th**

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**Results, Conclusion, Future Study Science Log due Jan 13th at 9:00 AM along with display board**

_____ 7. Results — how do you interpret the data, what patterns and relationships do you see

_____ 8. Conclusions — based on your results how would you answer your question, what did you learn that you would like others to know

_____ 9. Future Study — what are you still thinking about after conducting your experiment, what questions do you have now, what modifications would you make for a future experiment

_____ 10. Science Log — what choices did you make when designing the experiment, does it include a sequential account of the story of this experiment **(This must be attached to the back of board)**

# Displaying Your Project

## Please be aware of the following:

* pictures of the experiment **should not include faces**

* entry form must be filled out and attached to the back of the board on the bottom right hand side. We will do this in class.

*** science log must be in an envelope or zip lock baggie attached to the back of the board**

* Please remember no names are allowed anywhere on the front of the board or in/on the science log

** All project boards must be freestanding and stable. Everything must fit on board, nothing can be displayed next to the board.