

Due Date: Wednesday, March 22nd,
Science Night: Tuesday, March 28th!

Science Project Guidelines and Resources Packet

Ideas in the Cross Halls Case!

K-2nd Grade:

- Collections - **see the cross halls for ideas**
 - Real collections like rocks, shells, fossils, cars
 - Internet collections on Poster Board like amazon tree frogs, butterflies, big machines (put the links, say something cool about the pictures you collect)
- Project Demonstrations (like a volcano, how the greenhouse effect works)
- Name plate **MUST** be in the upper right hand corner of your project (See cutout form on page 5).

3rd Grade:

- Collections - **see the cross halls for ideas**
 - Real collections like rocks, shells, fossils, cars
 - Internet collections on Poster Board like amazon tree frogs, butterflies, big machines (put the links, say something cool about the pictures you collect)
- Project Demonstrations (like a volcano, how the greenhouse effect works)
- Scientific Method Experiment (in class or at home, see below)
- Name plate **MUST** be in the upper right hand corner of your project (See cutout form on page 5).

4th-5th Grade

- Scientific Method Experiment (on Poster Board or Tri-fold, see examples at end of packet)
 - Mrs. McFall has boards for sale or get them at Meijer, Walmart, Staples or Walgreens, fully labeled with all sections of the Scientific Method.
 - Handwritten (NEAT!) or on a computer
- Your final project should have all the major headings in the Scientific Method.
 - A. **Problem/Purpose/Question**
 - B. **Hypothesis**
 - C. **Materials**
 - D. **Procedure/Method**
 - E. **Observations/Data**
 - F. **Results/Analysis (explain your results)**
 - G. **Conclusions (include what you'd try next)**
- REPEAT, REPLICATE, REPEAT, REPLICATE....all experiments must be **repeated** exactly as you did the first time (mostly 3, 4 or 5 times) to show that your result is REAL and not just CHANCE!
- Put down all the steps in your method or procedure, even the little itty bitty ones. The purpose of your procedure is so that anyone can repeat your experiment **exactly** as you did, and hopefully get the same results.
- Name plate **MUST** be in the upper right hand corner of your project (Use cutout form on page 5)

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Scientific Method

Ask a question

Do background
research

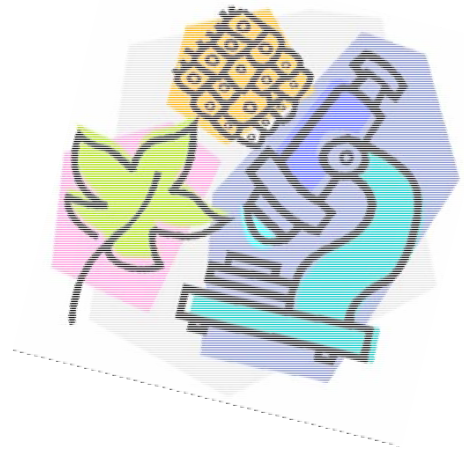
Construct a
hypothesis

Test your hypothesis
by doing an
experiment

Analyze your data and
draw conclusions

Report your results
(Was your hypothesis
correct?)

What is the next
question?



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Some Basic Experiment Ideas

Can you tell where sound comes from when you are blindfolded?
Can things be identified by just their smell?
Which tile cleaner removes soap scum the best?
Does the temperature of water affect the time it takes for the water to freeze?
Do different brands of popcorn leave different amounts of unpopped kernels?
How do differences in surfaces affect the adhesion of tape?
Show how many colors of food dyes or inks are found in a smarties or m&m?
Is snow warmer on top or underneath?
Is our heartbeat affected by music?
Do quarters and feathers fall at the same speed?
Do plants grow at different rates when given different plant foods?
Do organic fruits/vegetables mold faster than non-organic fruits/vegetables
Can fruits/vegetables conduct electricity?

More Ideas in Media Center books

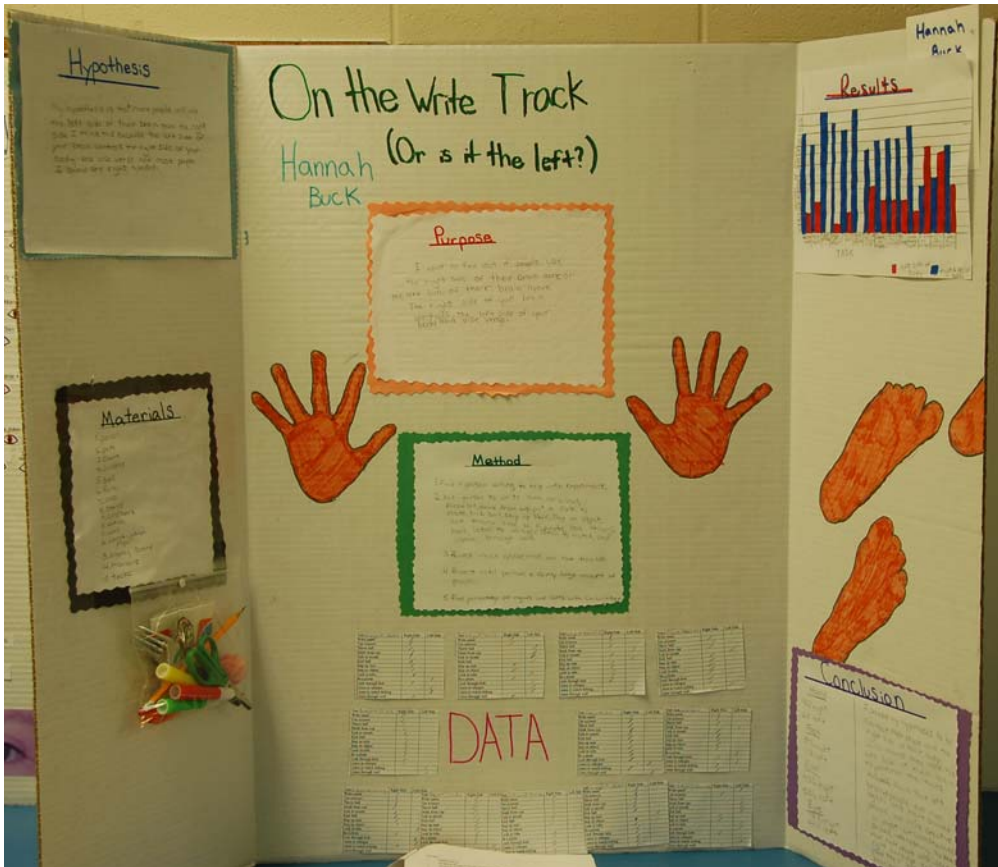
and at:

<http://www.education.com/science-fair/scientific+method/>

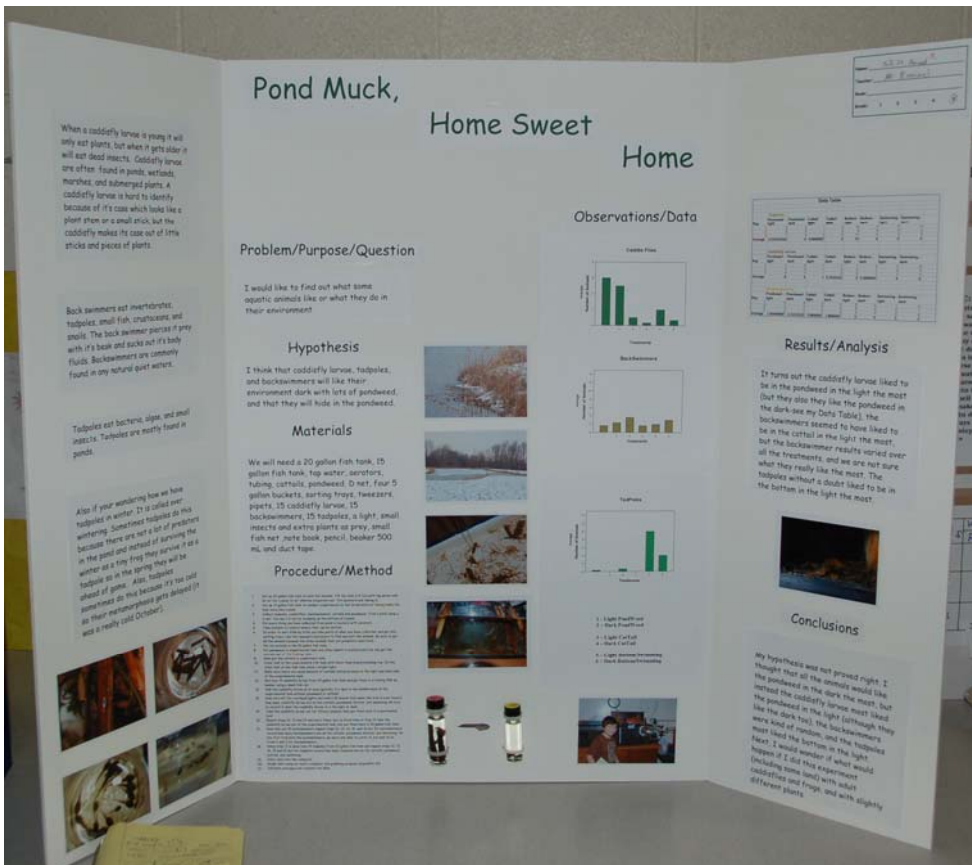
or at:

<http://www.cool-science-projects.com/>

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Handwritten. Well Organized. Graphs. Data. Neat!



Computer. Well Organized. Graphs. Data. Neat!

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Name Tag for Project

Name: _____

Teacher: _____

Room: _____

Grade: K 1 2 3 4 5

Take Chances, Make Mistakes, Get Messy!