Black Diamond Elementary PTA

2014 SCIENCE FAIR PACKET

This packet contains useful information on how to do your project, including helpful links to find a fun experiment, and instructions on how to set up your display board. There will be a sample board on display outside of the office in March.

Important Dates and Information:

- Project due date – March 18, 2014
- Free Display Boards will be distributed the week of February 10.
- Completed display boards need to be in the gym before school on Tuesday March 18, 2014.
- Students will have the opportunity to demonstrate their experiments to their class on Science Fair day.
- A Science Fair Open House will take place in the evening (time tbd) on March 18, 2014. Students will have the opportunity to demonstrate their experiments for parents at this time.
- Projects will be evaluated only. Everyone who participates is a winner and will receive a certificate of participation.
- Plan for enough supplies/materials to demonstration the experiment at least twice on Science Fair day.
- Questions? Contact Susan Campbell-Hehr @ 206-909-2643 or suekenstep@aol.com

Science Fair Topics:

Biology

Chemistry

Earth Science

Engineering

Environmental Science

Mathematics and Computer Science

Medicine and Health

Physics

Science Fair websites:

http://all-science-fair-projects.com

www.terimore.com

www.sciencebuddies.org

The Scientific Method

1st Ask a Question or Make an Observation

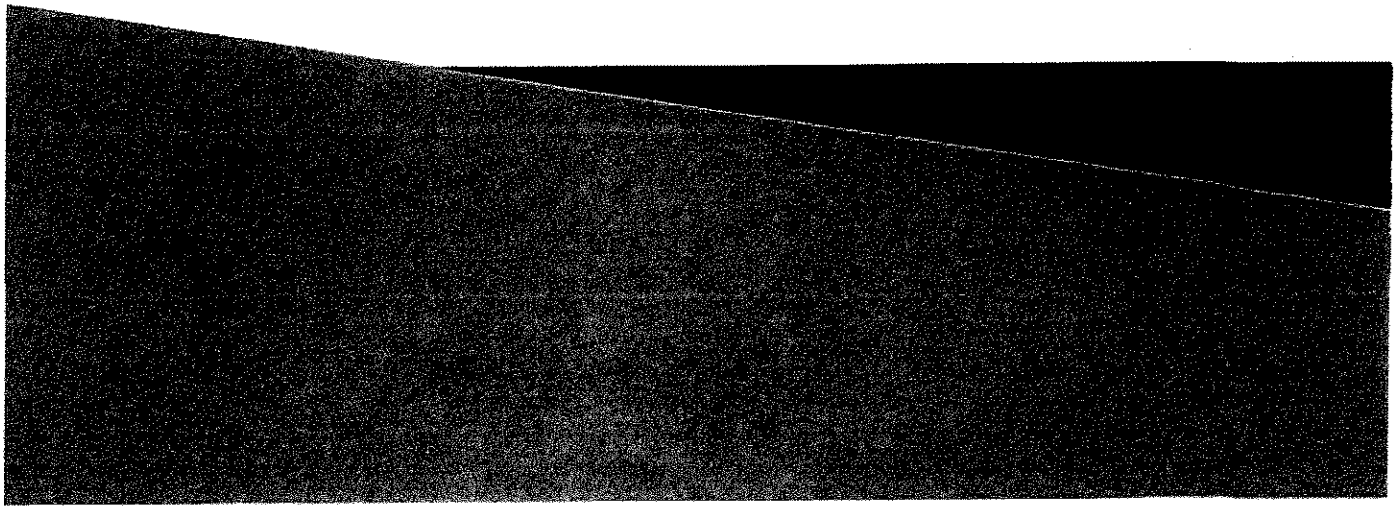
2nd Write a Hypothesis

3rd Make Predictions

4th Perform Tests or Experiments

5th Record data/research

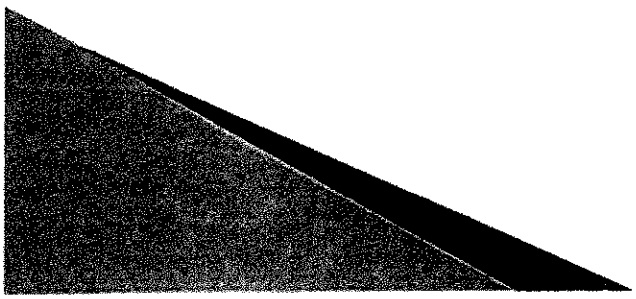
6th Conclusion



Follow the steps below to complete your project.

- Question or Observation:
  - What are you curious about, or what have you seen that makes you wonder?
- Hypothesis:
  - What do you think is the answer to your question or the reason for your observation?
- Predictions:
  - What are some if/then statements that explain and confirm your hypothesis?
- Experiment:
  - What will you do to test your predictions?
  - List the materials used in your experiment.
  - Write the procedures or steps to do your experiment.
  - Your hypothesis may not have been correct. That's Okay!

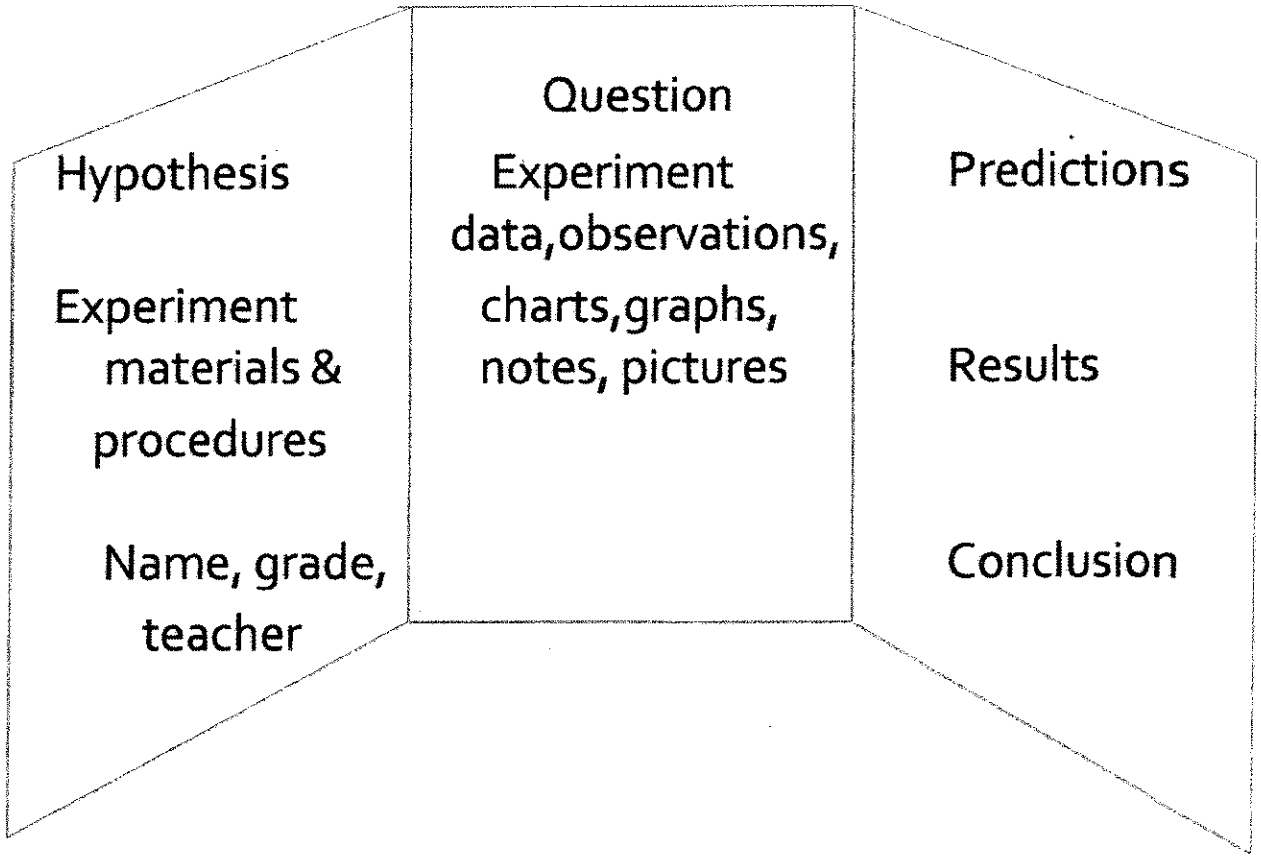
- Data/Research and Results:
  - Record your observations during the experiment in the form of charts, graphs, notes, or pictures.
  - Record the results of your experiment.
- Conclusion:
  - What does your data or research and the results of your experiment tell you about your hypothesis? Did the experiment confirm your hypothesis? Why or why not?



Project Display Board

- Use a trifold cardboard display board that is large enough to hold all of your information.
- Use large, neat print or type.
- Use charts or graphs or pictures to show your results.
- Include:
  - Your name, grade, teacher
  - Project title (same as your Question)
  - Hypothesis and predictions
  - Experiment instructions or research
  - Data or observations from your experiment or research
  - Conclusion

Display Board Diagram



Student Name:

Project Title:

The Question:
What am I trying to learn:

My Hypothesis:
What I think will happen.

Materials:
What I need to do the experiment.

1.	16.
2.	17.
3.	18.
4.	19.
5.	20.
6.	21.
7.	22.
8.	23.
9.	24.
10.	25.
11.	26.
12.	27.
13.	28.
14.	29.
15.	30.

How to do my experiment.

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____
13. _____
14. _____
15. _____
16. _____
17. _____
18. _____
19. _____
20. _____
21. _____

Data I collected from my experiment.

Data I collected from my experim

Conclusion:
What I learned from my experiment.

Science Fair Rubric

	Exceeds	Meets	Does not Meet
Display Board	The display is neat and easy to read. All sections are clearly displayed. Titles are used for each section. Colors are used to make the display more attractive. Each section of the display is organized in a way so that the public can follow the steps of project.	The display is neat and easy to read. Titles are used for each section. Each section is organized in a way so that the public can follow the steps of the project.	Display is hard to read. Titles are not used for each section.
Experiment	Your procedures are clear and easy to follow. The experiment is appropriate for your ability level. Your data supports your hypothesis. You completed your experiment.	Your procedures are clear and easy to follow. Your data supports or disagrees with your hypothesis. You completed your experiment.	Procedures are not included on display. Data doesn't support the hypothesis. Experiment was not completed.
Use of Scientific Method	All the steps of the scientific method were used. You show an understanding of each step of the scientific method.	You show an understanding of the scientific method.	Did not follow the steps in the scientific method.
Overall Project	You completed your project. You included your experiment in your display. Your question is your own idea not from reference material.	You completed your project.	Did not complete the project.