

**Question:** How Does color affect memory?

**Hypothesis:** I think that you will be able to remember the black and white printed writing best.

**Materials:**

5 girls  
5 guys  
A list of colored words  
A list of black and white printed words  
10 pieces of blank paper  
10 pencil  
a stop watch.

**Procedure:**

- 1) Get five girls and five guys to use for the project.
- 2) Give them all a piece of paper of all the words.
- 3) Half of the paper is going to have colored writing and the other is going to have black and white writing.
- 4) Their going to be time a minute to look over the list.
- 5) When the time is up, their going to be given a new piece of paper that has two sections like the other paper.
- 6) Their going to be time for a minute again to write down all the words they remember in the right spot.
- 7) When their done, we will check over them and see which ones they got right.
- 8) When we figure out the ones that they got right we will make a graph.

Data/Observations :

Discussion :

Conclusion

Size 22

Size 37  
(minimum)

## Question

How many times does a sixth grader need to be told how to do something?

## Hypothesis

I think sixth graders need to be told ....

Centered &  
underlined

Materials: (list w/ bullets)

- 
- 
- 

Procedure: (list in numbered steps. Must be specific enough anyone could read & repeat experiment)

- 1.)
- 2.)
- 3.)

How to write your conclusion:

## Conclusion

1. Restate the problem or question.
2. Restate your hypothesis
3. Briefly describe your experiment (in past tense).
4. Compare your data to your hypothesis: Does your data support your hypothesis? Why or why not?
5. Discuss what you learned.
6. Problems/Improvements: What problems did you have with the lab? If you did this experiment again, what would you do differently?

**Do not number each part!** These are just showing what needs to be included in your paragraph.

# BEFORE YOU PRINT EACH SECTION:

## MAKE SURE YOU:

- ☐ Have the beginning of each sentence capitalized
- ☐ Periods at the end of sentences
- ☐ HAVe the title of the section centered and large enough to read
- ☐ The section is large enough to read  
(22-28)
- ☐ NO MISSPELLED WORDS!SPELLCHECK!!

Board # \_\_\_\_\_

Total Score: \_\_\_\_\_

## Steps of the Scientific Method

### Question/Problem/Purpose

- 5 Clearly stated, original, and creative
- 3 Adequately stated; but could be more specific
- 1 Vague, too broad, too simple
- 0 No question / problem / purpose

### Hypothesis

- 5 Clearly stated
- 3 Adequately stated; but could be more specific
- 1 Poorly stated, not based on research
- 0 No Hypothesis

### Experiment (Materials and Procedure)

- 5 Clearly stated. Very Precise. Reader knows exactly how experiment was done
- 3 Procedures are stated; reader gets the idea of how experiment was carried out
- 1 Inadequately stated; not clear, does not test question
- 0 Procedure and materials absent

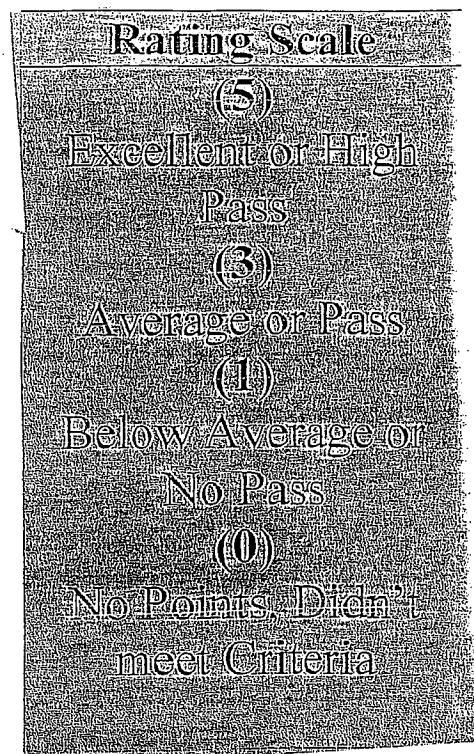
### Data/Results

- 5 Organization is evident; includes several trials; graphs, diagrams, and visual aids are present
- 3 Adequately organized to make conclusion
- 1 Disorganized; difficult to understand
- 0 No Data

### Discussion

- 5 Discussion talks about data/results in detail
- 3 Discussion present but does not include all data, including all trials and calculated averages
- 1 Discussion weak, too vague
- 0 No discussion

Over Please ➡



## Conclusion

- 5 Insightful connections among questions, hypothesis and data. Sources of error and improvement of project discussed
- 3 Conclusion could be more specific, some connections made, some explanation
- 1 No connection or reference to question, hypothesis and data
- 0 No conclusion

## Organization

- 5 Appropriate Sequence; scientific method has been followed
- 3 Not in sequence, but all steps are included
- 1 Incomplete process and steps

## Creative and Artistic Design

- 5 Commands attention, unique, stands out
- 3 Meets norm but does not stand out
- 1 Display is plain, board is messy

## Grammar and Spelling

- 5 Flawless in spelling and grammar
- 3 Adequately written with few errors
- 1 Poorly written, many errors

## Presentation

- 5 Able to explain what was done in detail and demonstrates extensive knowledge
- 3 Able to explain if questioned; judge must draw answers out of presenter
- 1 Shy, doesn't interact with judge much

Comments to Young Scientist:

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