

putting  
together  
"Jake"

your  
science  
fair

notebook / Journal

# These Written words belong on

pages



words



where



8 - Judging guide (top of p1)

9 - define  
controlled experiment (center)  
control group

10 - science fair wordsearch (top)

11 - Use 5 new words you  
learned from doing your  
project in sentences (center)



12, 14, 16, 18 - Scientific method (top)

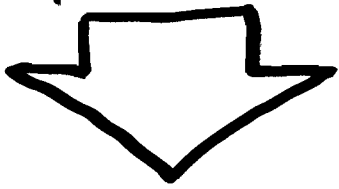
13 - my experiment (top)

22 - reading - creating a winning display (top)

23 - reading - scientific method (top)

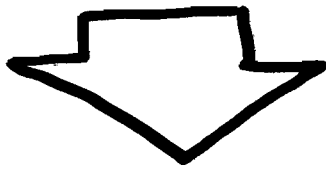
24 - bibliography format (top)

pages



25

words

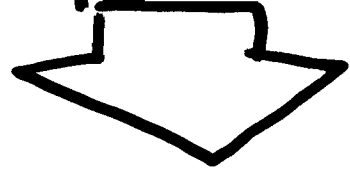


My bibliography

1-

2-

place



(center)

28

Gallery walk

(top)

①

name

class

team

seat

(bottom  
right)

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go home fill out page 2 and  
get it signed



Idea list

More at:

www.armstrong227q.com/sciencefair

**ideas**

SCIENCE FAIR PROJECTS

What is the best home insulator?  
 Color affect on heat absorption?  
 Wing design for paper planes?  
 What is the best chemical battery?  
 How can you prevent food from rotting?  
 Electropilating  
 Conductivity of various substances  
 Comparison of reaction time  
 Effect of temperature on density  
 Effect of light on bacteria  
 How do plants with respect to aerodynamic  
 get compensation of outside  
 What is the best design for reduced wind  
 drag?  
 Does color affect warming?  
 Does sound affect plant growth?  
 Alcohol content of drinking water  
 Probability  
 Percent of body fat  
 Taste sensitivity of smokers and non-  
 smokers  
 Which beach water is best?  
 How does lack of sleep affect behavior?  
 Testing for ESP  
 How different paper hold up to  
 weathering  
 Is it possible to learn while sleeping?  
 Does temperature affect crystal growth?  
 Getting the viscosity of a liquid using a  
 sphere  
 Which detergent works best?  
 Designing a solar engine  
 Which is better: front or rear wheel drive?

more ideas at:  
 www.armstrong227q.com/sciencefair

pg 6

What are your science fair ideas?

idea list

What have you picked as the project you will do?

data: \_\_\_\_\_

why will you experiment on this project idea?

\_\_\_\_\_ project idea Ok by \_\_\_\_\_

\_\_\_\_\_ project must be completed by \_\_\_\_\_

pg 7

What are your ideas

fill in all information

how you will be graded

Judging Guide

SCIENCE FAIR JUDGING GUIDE & RUBRIC

This rubric is used to assess and award the projects of local students. Each subject has a description listed under the subject heading. The descriptions are used to determine the level of the project. The judges select the level of the project based on the criteria listed in the rubric. The judges select the level of the project based on the criteria listed in the rubric.

Category	15	10	5	Below Grade
Topic / Display	The display has been completed with good organization. (Observations are clear, neat, and written on separate sheets with all pertinent information.)	The display has been completed with good organization. (Observations are clear, neat, and written on separate sheets with all pertinent information.)	There is no type of organization with explanations, observations, and/or data reported. It is difficult following the steps of your project due to the lack of organization.	No display provided.
Oral Presentation	There is a full level of preparation. The presenter(s) have a good understanding of their subject.	There is a fair level of preparation. The presenter(s) have a good understanding of their subject.	There is a low level of preparation. The presenter(s) have a very little understanding of their subject.	Not prepared to present.

pg 8

define -

Controlled experiment -

control group -

pg 9

define (look in a dictionary)

all words given to you by your teachers as part of this project

this word search will be handed in and graded before it is glued into our book.

Science Fair Word Search

visit: www.armstrong227q.com

pg 10

Use 5 new words you learned from doing your project in sentences

- 1-
- 2-
- 3-
- 4-
- 5-

pg 11

You must find 5 new words to use in sentences

# Written format for your Project

We use the Scientific method as a written format for our projects

<p>12. Scientific Method</p> <p><u>Question</u> I will answer <b>SciFair</b></p> <p><u>materials</u> I will use (consumable items)</p> <p><u>equipment</u> I need</p> <p>this is what I <u>think</u> I will do and what I <u>feel</u> might happen</p>	<p>My experiment</p> <p><u>procedure</u> - step by step set of instructions for doing my experimentation</p> <p>step 1- first I</p> <p>step 2-</p>
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pg 12

pg 13

Written words on top of all pages

<p>14. Scientific Method</p> <p><u>data</u> - this is a collection of facts found through my experimentation.</p>	<p>My experiment</p> <p><b>SciFair</b> journal notes: my thoughts and ideas photos and graphs too</p> <p>data _____</p>
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pg 14

pg 15

fill in all information

<p>16. Science Fair</p> <p><u>results</u></p> <p>is your data scattered or fairly consistent?</p> <p>how do you know?</p> <p>what does your data suggest?</p>	<p>my experiment</p> <p><b>SciFair</b> journal notes: my thoughts and ideas</p> <p>date _____</p> <p>what are your <u>variables</u>?</p> <p>what variables did you <u>control</u> in your experiment? <small>what does this mean?</small></p>
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pg 16

pg 17

include photos, data charts, graphs.

Question (problem)

materials/equipment

hypothesis

procedure

data/results

conclusion

variables

i can make tables and charts

variables

Science fair

my experiment

conclusion

what did you discover/find out because you did this experiment?

What could you have done to make this experiment better?

Is it possible to continue with this project next year? How or why not?

pg 18

pg 19

Writing at the top of the page.

The purpose is the Question or problem

this is what my project will look like

Display Board Mock Up

MUST include the following:

- Purpose
- Hypothesis
- Procedure
- Materials / Equipment
- Results / Data
- Conclusion
- Vocabulary
- References (on back)

Name: \_\_\_\_\_

Class: \_\_\_\_\_

Table: \_\_\_\_\_ Seat: \_\_\_\_\_

Date: \_\_\_\_\_

DUE: Week of February

Define: Mock Up:

www.armstrong227q.com/sciencefair

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pg 21

This is a drawing of how your finished project will look like

This reading assignment will be handed in and graded before you glue it into your notebook

reading - creating a winning display

name \_\_\_\_\_

1

2

3

4

5

6

hand in

reading - scientific method

answer all questions in your notebook

SCIENTIFIC METHOD - 1. Collecting Data

SCIENTIFIC METHOD - Collecting Organizing Data Stating a Conclusion

QUESTIONS

1. What is the scientific method? How does it work?
2. Where is the data? How do you collect data?
3. How do you organize and record data?
4. How do you state a conclusion?
5. Why is the scientific method important?
6. How can you use the scientific method in your life?

pg 22

pg 23

Writing at the top of the page.

Questions + Answers will be written on this page.

Samples of how to write a bibliography

**Bibliography Format**

How to You do it

**BASIC FORMAT FOR A BOOK:** For most books, arrange the information into three units, each followed by a period and one space: (1) the author's name, last name first; (2) the title and subtitle, underlined or italicized; and (3) the

pg 24

**My Bibliography**

1-

2-

pg 25

this is when we write our references or bibliography

pg 26 & 27 are empty at the moment

As students present their projects we sit listen and, at the end, get to ask questions. We write our thoughts and notes on these Gallery Walk sheets. We grade the projects based on our Judging Guide.

**Gallery Walk**

30

31

32

33

34

35

36

37

38

39

**Scifair 1 team**

**Scifair 2 team**

**Scifair 3 team**

**Scifair 4 team**

**Scifair 5 team**

**Scifair 6 team**

**Scifair 7 team**

**Scifair 8 team**

**Scifair 9 team**

Each team's section contains a grid of 'Gallery Walk' sheets. Each sheet has a header with 'Name', 'Table', and 'Date'. Below the header is a 'Problem' section with a 'Score' and 'Category'. The 'Problem description' section includes 'Display', 'Oral Presentation', 'Idea on grade level', 'Creativity', 'Equipment', and 'Validity of results & conclusion'. At the bottom of each sheet is a 'Judging Guide' with a 'Total' score and a 'Name of assignment'.

pages 28 to 39