Science Fair: GETTING THE IDEA du

due: Mon May 14th

PLEASE EMAIL ME TONIGHT YOUR NAME & PHONE NUMBER! MrsG9064@aol.com

Name	email:	phone #
A science fair project! What to do? D	o I have to find a cure for cancer? A v	vay to end pollution? An endless supply of
1 2	1	with your very first project (that can wait a year
or two!) What are you expected to do	? First, you've got to select a topic. A	And, how, you ask, do you do that? This should
skateboards, animals, photograp	hy) OR, 10 THINĜS YOU HA `	II, computers, people watching, reactions, plants, VE WONDEREDED ABOUT (Is black print easier nite? Would a helicopter fly better with more blades?)
1	22	
3	4	
5	6	
7	8	
9	10	

Now, pick the 4 most interesting topics & ask yourself 5 questions about each one. For example, let's say you really like football. Your questions might include, "Can I write a computer program to predict the outcome of this year's NFL games?" "Would young players learn faster if the coach used a computer to diagram plays?" "Do Pac-Man whizzes make better passers?" "Do players with thicker necks suffer fewer injuries?" "Does artificial turf produce more touchdowns?" "What is the relationship between body fat & running speed?" Get the idea? OK, before you start on your questions, read through this list of banned projects below.

PROJECTS THAT WILL NOT BE ACCEPTED

- 1. Surveys that involve opinion sampling, product use, taste testing, etc.
- 2. Models (volcanoes, solar panels, electric circuits), Collections, Demos (how a battery works), & Kits
- 3. Anything in violation of animal or other fair regulations (tobacco, explosives, rocket fuel, etc.)
- 4. Projects with small sample sizes or ones where it would be impossible to do a lot of tests & trials
- 5. Illogical or "Who Cares?" tests (effect of Gatorade on plant growth)
- 6. Projects in which the results are common knowledge
- 7. Projects which duplicate standard class/text experiments
- 8. Anything with purely subjective measurements or preferences
- 9. Product testing (which is best?) that lack science
- 10. Projects in which the results will take years & years of research (do vaccines cause autism?)

PROJECTS UNLIKELY TO BE ACCEPTED (these are either too common, too easy, or too hard)

- 1. Effect of colored light on plants (or anything else)
- 2. Effect of music on plants (ditto)
- 3. Effect of talking on plants (ditto)
- 4. Effect of cigarette smoke on plants (ditto) -- NOW FORBIDDEN
- 5. Mold growth
- 6. Crystal growth
- 7. Effect of cola, coffee, etc. on teeth
- 8. Effect of running, etc. on blood pressure
- 9. Effect of music on blood pressure
- 10. Effect of video games on blood pressure
- 11. Effect of almost anything on blood pressure
- 12. Do we eat balanced diets? (data usually unreliable)
- 13. Strength/absorbency of paper towels (and other products)
- 14. Most consumer product testing of the "Which is best?" type
- 15. Graphology
- 16. Astrology / Optical Illusions
- 17. ESP, especially standard card test
- 18. Basic maze running
- 19. Any project which boils down to simple preference.
- 20. Effect of color on memory, emotion, mood, etc.
- 21. Effect of color on taste.
- 22. Effect of color on strength.

- 23. Ball bounce tests with poor measurement techniques
- 24. Reaction Times
- 25. Many male/female comparisons, especially if bias shows
- 26. Basic planaria regrowth
- 27. Detergents vs. stains
- 28. Basic solar collectors

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29. Acid rain projects (Important: to be considered, thorough research into the composition of acid rain and a scientifically accurate simulation of it would be necessary.)
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- 30. Basic flight tests, e.g., planes, rockets
- 31. Battery life (plug in and run down type)
- 32. Basic popcorn volume tests
- 33. Stills (alcohol) of any kind (PROHIBITED)
- 34. Pyramid power
- 35. Basic flower preservation techniques
- 36. Taste comparisons, e.g., Coke vs Pepsi
- 37. Smelling vanilla, etc., to improve test scores
- 38. Sleep learning
- 39. Taste or paw-preferences of cats, dogs, etc.
- 40. Color choices of goldfish, etc.
- 41. Basic chromatography
- 42. Wing, fin shape comparison with mass not considered

You may email your ideas to Mrs Gillum OR bring them to her <u>BY THIS MONDAY: May 14th</u>. At that time we'll set up an interview time to discuss your ideas and finalize your project idea! My email is: Mrsg9064@aol.com

Write down your 4 favorite topics below. For each, develop 4 thoughtful & testable questions & record them. Again, be realistic about the amount of **time** needed for testing, available **resources**, & **HOW** you are going to test the idea. *Last Step: Circle your favorite ideas (the ones that you would REALLY like to do!)*

Topic #1:	My 4 project ideas about this topic are:
1	
-	My 4 project ideas about this topic are:
2	
3	
	My 4 project ideas about this topic are:
1	
Торіс #4:	My 4 project ideas about this topic are:
1	
2	
Idea Banks: You can Google these for the web address:	Web Sites for additional assistance:
All Science Fair Projects	Mrs Gillum's Site: http://mrsgillumscience.com
Science Buddies Project Ideas	Mrs Schumacher's Site: http://erinschumacher.com
Education.com Science Fair	San Diego City Science Fair: http://www.gsdsef.org
PBS Kids Science Fair	http://www.gsdsef.org/GeneralInfo/links.shtml
Cool-Science-Projects	CA State Sci Fair: http://www.usc.edu/CSSF/
Canadian Science Fairs SciFair.org	http://www.school.discovery.com/sciencefaircentral
READ!!! Read the newspaper, magazines, blogs, the internet. Look for interesting topics, new	http://www.all-science-fair-projects.com/ http://pbskids.org/dragonflytv/scifair/index.html
scientific discoveries, anything that may pop a	http://www.cool-science-projects.com/index.html
few ideas into your head. Go to the library and	http://www.cdli.ca/sciencefairs/intermed.html
browse through science books. Here are some	http://www.scifair.org/projects/
interesting websites:	Science Buddies SF Guide
<u>Science Daily</u> : a source of major scientific news	http://www.sciencebuddies.org/mentoring/project_guide_index.shtml
articles, browse by interest	Lakewood Public Library Guide
Science Magazine: scientific research & news	http://www.lkwdpl.org/study/sfair/
Go to Google News & search for a topic that	http://www.ri.net/schools/East_Greenwich/Cole/sciencefair.html

Reminder: Use these only as suggestions to get your creative juices flowing. You may not copy another project

interests you. Check out the latest news on that issue. Perhaps you'll find something testable!