STEM Fair Projects Often Done by Students 2019-20

Projects should be experiments, NOT demonstrations and should reflect the student's own work and ideas. As an experiment, the project is a collection and analysis of data.

The following list outlines topics that are commonly seen at STEM fairs and are not necessarily unique ideas or projects. If your student does a similar project make sure it is well thought out with a lot of data and multiple trials (more than 2 or 3) and a creative twist.

- 1. Effect of music on plants
- 2. Effect of talking to plants
- 3. Effect of dark vs. light on plants or colored lights, etc.
- 4. Effect of liquids on plants other than water, e.g. milk, soda, salt water, etc.
- 5. Effect of cola, coffee, etc. on teeth; tooth decay, coloring, etc.
- 6. Effect of running, jumping, music, video games, movies, etc. on blood pressure
- 7. Balanced diets (data usually unreliable)
- 8. Strength/absorbency of paper towels (and other products)
- 9. "Which is best?" Approach generally without scientific merit (which popcorn pops better, which soap, fertilizer, etc.)
- 10. Basic maze running
- 11. Any project that boils down to simple preference; what do girls/boys/cats/dogs like better...
- 12. Effect of color on memory, emotion, mood, etc.
- 13. Effect of color on food taste, e.g. changing the color of Jell-O to affect the taste.
- 14. Optical illusions
- 15. Reaction times in general and distractions effecting reaction speed
- 16. Many male/female comparisons, especially if bias shows
- 17. Basic planarian regeneration
- 18. Detergents vs. stains
- 19. Basic solar collectors
- 20. 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.)
- 21. Basic flight tests, e.g., planes, rockets
- 22. Battery life (plug in and run down)
- 23. Basic popcorn volume tests
- 24. Taste comparison, e.g., Coke vs. Pepsi can you tell the difference?
- 25. Sleep learning
- 26. Music affecting learning
- 27. Taste or paw-preferences of cats, dogs, etc.
- 28. Color choices of goldfish, etc.
- 29. Basic chromatography
- 30. Wing or in shape comparison with mass, surface area, etc. not considered
- 31. Ball bounce tests with poor measurement techniques
- 32. Fingerprints and heredity
- 33. Hovercraft design
- 34. Colonizing bacteria from doorknobs, student's hands, places around the school, etc.
- 35. Memory Tests
- 36. Penny polishing; what cleans pennies the best
- 37. Insulation effectiveness
- 38. Coke & Mentos
- 39. Hand sanitizers and bacteria; which sanitizer is best?