Research Directory

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**Biology**

1. Blood pressure and pulse
2. Bone and tooth minerals
3. Bread and baking
4. Color (vision,etc)
5. How preservatives keep food fresh
6. Mold
7. Science of Eggs, Anatomy of an Egg
8. Teeth
9. The Banana Ripening Process & Banana Storage
10. The Origin of Fruit Ripening

**Chemistry & Cooking**

1. Am J Phys What is behind Diet Coke Mentos reaction
2. Bread and baking
3. Buoyancy – Archimedes’ principle
4. Butter
5. Carbohydrate
6. Chemical reaction – catalysts & enzymes
7. Chemical reaction – corrosion
8. Chemical reaction – details
9. Chemical reaction
10. Chemical Solutions by Ron Kurtus
11. Combustion – oxidation – burning
12. Density
13. Dyes
14. Elements, compounds, and mixtures
15. Fire
16. Food and nutrition
17. Glucose
18. How preservatives keep food fresh
19. Margarine
20. Mentos & Diet Coke
21. Osmosis – hypertonic, hypotonic, isotonic
22. Particle theory – solids liquids & gases
23. Polar and Non-Polar Molecules by Ron Kurtus
24. Polar and nonpolar molecules
25. Protein
26. Soap and detergent
27. Solids liquids and gases
28. Solutions & solubility
29. Surface tension
30. The difference between baking soda and baking powder
31. The Science of Baking
32. What is Shortening

**Physics**

1. aerodynamics
2. airplanes – complete
3. buoyancy – Archimedes’ principle
4. density. Pdf
5. factors affecting bouncing
6. Forces – Newton’s Laws of Motin
7. Gliders – ideas used in planes
8. Gravity
9. NASA - Newton’s Laws of Motion
10. NASA Aerodynamic Forces
11. NASA Guided Tours of the Beginners Guide to Aeronautics
12. NASA Newton’s First Law of Motion
13. NASA Newton’s Second Law of Motion
14. NASA Torque (Moment)
15. Q&A Bouncing on Floor Surfaces
16. Q&A Why do basketballs bounce
17. Why do rubber balls bounce

**Plants**

1. Growth
2. How do plants know which way to grow
3. Photosynthesis
4. Plant nutrition
5. Soil
6. What do plants need for growth

**Electricity & Magnetism**

1. Electricity – complete
2. Electricity
3. Electrochemistry & electrolysis
4. Magnetism
5. Static electricity