

50 Science Experiments/Projects to choose from:

1. The Heat Is On	If you put a paper cup above fire, it will quickly burst into flames. In this project, amaze others with paper that doesn't burn.
2. Get the Point?	If someone laid down on a sharp nail, it would really hurt. But did you know it's possible for a person to lie on a bed of nails, and not get hurt? With this project, you can show this is possible using a balloon instead of a body.
3. The "Eyes" Have It	If you slow down a cartoon, you'd see that it is simply a series of illustrations. So what makes the drawings seen so real? Filmmakers rely on our persistence of vision to add life to still images. In this project, you can put on your director's hat and perform a bit of moviemaking magic yourself.
4. Water Weight Gain	All foods contain water. Can you tell how much water is in something just by looking at it? Let's find out!
5. Are Your Suds "Duds?"	Can you get better suds without changing shampoos or using half a bottle each time you wash your hair? If your lather tends to lack luster, maybe the problem is that your home has hard water. With this project, you can find out why it's not easy to make soapsuds or lather with hard water.
6. Earn a Good Conduct "Metal"	Sometimes when you pick up a spoon from a saucepan, it's so hot it burns your fingers. That's because heat travels from the pan through the spoon, a process called conduction. Do all materials conduct heat at the same rate?
7. Hot, Hot, Hot!	You may have noticed how on a hot sunny day, you often feel cooler when you wear light-colored clothes, especially white. Is it just your imagination, or do light colors really keep the sun's rays away from you?
8. Penny for Your Thoughts	This project deals with water absorption and surface tension.
9. Oh, Grow Up!	This project deals with gravity and plant growth.
10. Don't Be So Dense!	This project deals with density of different fluids.
11. Red Sky at Night	This project deals with why the sky turns different colors when the sun sets.
12. A Growing Global Problem	This project deals with the greenhouse effect.
13. Acid Rain, Go Away	This project deals with the effects of acid rain.
14. Buoy, Oh, Buoy!	This project deals with the forces behind floating.
15. Collapsing Under Pressure	This project deals with the mighty force of pressure.

16. It's Just Phase	This project deals with the phases of the moon and why they appear as they do.
17. Falling for Color	This project deals with why leaves change color.
18. Fancy Footwork	This project deals with coordination.
19. Fill 'er Up!	This project deals with lung power and sees if lung power is related to height or weight of a person.
20. Sound Advice	Can astronauts hear in space?
21. Mining for Cereal	What is the iron content in the cereal that we eat?
22. Seeing Is Believing	This project looks at the "truth" in advertising. Are some paper towels really stronger than others?
23. Hero's Fountain	Can you make water flow without a pump?
24. Drawing with Fire	Can you use an oxidation reaction to draw a picture with fire?
25. Thanks for the Memories	Just how fleeting is short term memory? This is a fun experiment to test others' memory.
26. Great Expectations	Testing Pavlov's theory.
27. The Amazing Water Shooter	Will water shoot out with greater force depending on the location of the hole?
28. Here's Mud in Your Eye	Making a water filter to strain "dirty" water.
29. Solar Sand	Is it possible to heat up sand without any sun?
30. Any Which Sway	This project demonstrates the concept of natural frequency.
31. It's Elementary, My Dear	This project takes a look at a crime scene and uses chromatography to separate different ingredients.
32. And They're Off	This project uses friction to demonstrate how different surfaces create different amounts of friction.
33. Freefall!	This project deals with terminal velocity, gravity, and freefall.
34. Shape Up!	This project shows surface tension at work.
35. Fighting the Air Force	By moving air around, you can create forces more powerful than the mightiest team of horses.
36. Here's Looking at You	Is it possible to see your brain making mistakes? Find out in this project.
37. The Big Crash	This project deals with momentum.
38. Beyond Explanation	The most important and exciting thing for scientists to discover

	is something they don't understand. That's because they are then forced to question their old ideas and come up with new and better ways of thinking. In this simple project, you'll see an effect that required a revolution in our ideas about the world.
39. "X" Marks the Spot	Every object has a center of gravity. This project shows you how you can find it.
40. 'Round the Bend	How light is refracted.
41. Magnetic Levitation	Gravity, magnets and levitation
42. Half-Life Dating	How do we date radioactive elements? With this project, you can demonstrate just how half-life dating is an important tool for scientists.
43. Wayward Compass	Compass needles always point north. Is it possible to get them to change direction?
44. Spare Me the Details	Making prediction about motion in a river.
45. Cosmic Ray Detector	You will build a cloud chamber to show traces of ghostly particles (cosmic rays) as they travel through our world.
46. Hellooooo!	Can you make a whisper sound like a shout? An exploration of sound waves.
47. Bubbles, Bubbles Everywhere	How are soap bubbles similar to the cells in our bodies?
48. A Cube-Shaped Globe?	If earth were cube-shaped instead of round, how would life be different?
49. Only Your Cabbage Knows	Testing pH using cabbage juice indicators.
50. It's Not Black or White	Can you make colors appear only using the colors black and white?