

SCIENCE FAIR PROJECT IDEAS

Physical Science

1. Is there a relationship between the size and strength of a magnet?
2. What types of surfaces produce the greatest or least amount of friction?
3. What variables affect the flight of an airplane (materials, weight, shape, angle of launch)?
4. How is the bounce height of a ball related to the drop height?
5. What variables affect the efficiency of parachutes (size, shape, materials)?
6. How does temperature affect the bounce height of a ball?
7. What variables affect the distance a balloon rocket will travel (amount of air, nozzle shape, angle of ascent, different pathways)?
8. Which type of material conducts sound the best?
9. Do different watt light bulbs produce different amounts of heat?
10. What effect does temperature have on buoyancy?
11. Does color affect the rate in which an ice cube melts?
12. What effect does color have on temperature?
13. What material makes the best heat insulator?
14. Which type of container keeps liquids hotter longer?
15. What effect does temperature have on the elasticity of a rubber band?
16. Do suction cups stick equally well to different surfaces?
17. Does the amount of stretch of a rubber band affect the distance a rubber band will travel?
18. What shape of container allows for greater rates of evaporation?
19. Does salt water or lemon juice have any effect on the rate of dehydration of different types of apples?

Life Science/Environmental

1. What effect do different colors of light have on the growth of plants?
2. What type of seeds will germinate fastest?
3. Does the direction a seed is planted affect the growth of the seed?
4. Do vitamins or fertilizers affect the growth of plants?
5. Do mirrors have an effect on plant growth?
6. Does acid rain have an effect on the germination of seeds?
7. Which direction will a vine grow around its support object?
8. What medium works best for growing seeds or plants?
9. Does temperature affect the growth of seeds or plants?
10. Is there a relationship between seed size and fruit size?
11. Which fruits or orange drinks have the most vitamin C?
12. Do potato cubes gain or lose mass in salt water solutions?
13. What kind of soil is best for water retention?
14. How does a garden mist spray affect plant growth?
15. Which plants and vegetables make the best dye?
16. Which type of wildflower grows best under artificial light?
17. How does temperature affect the water uptake in celery plants?
18. Does the type of water affect the growth of plants?
19. Is soil necessary for plant growth?
20. How does rotation affect plant growth?
21. Does music affect plant growth?
22. Does a plant grow best in sunlight or artificial light?
23. Can plants deprived of sunlight recover?

Earth Science

- The sun causes water to evaporate into the air, where it forms clouds and comes back down as rain or snow. Can wind speed, humidity, or temperature have an effect on the rate of evaporation? (Do one of these [weather experiments](#) to find out more.)
- How good is soil at breaking things down? What can you find that is biodegradable? How can you test to see whether something is or not?
- What holds more water, sand or soil? How does this affect what kinds of plants can grow in each?
- Can you learn to [predict the weather](#) from the clouds? Try using a [cloud chart](#) to make your own forecast every day for a few weeks. How accurate was the cloud-forecast method?
- You can also do an experiment to test different building designs for earthquake stability. Which designs are most stable?