

1. Plants and Gardening

1. How does sunlight affect plant growth?
2. What type of soil is best for growing plants?
3. Can plants grow without soil (hydroponics)?
4. Do plants grow better with tap water or rainwater?
5. How does music affect plant growth?
6. Which fruits or vegetables rot the fastest?
7. What happens when you overwater a plant?
8. Do plants need fertilizer to grow?
9. How do different light colors affect plant growth?
10. Can plants grow in the dark?

2. Animals and Insects

1. What do ants eat the most?
2. How do worms help plants grow?
3. Can bees see colors?
4. What attracts butterflies the most?
5. Do fish prefer warm or cold water?
6. How do snails move on different surfaces?
7. What foods do birds like the most?
8. How do spiders spin their webs?
9. Can insects see in the dark?
10. Do crickets chirp more in warm weather?

3. Weather and Climate

1. How does temperature affect evaporation?
2. What causes rainbows?
3. How do clouds form?
4. Can you make a homemade barometer?
5. How does wind speed change during storms?
6. What materials make the best umbrella?
7. How does snow form?
8. Can you predict the weather using nature?
9. How does humidity affect hair frizz?
10. What makes thunder and lightning?

4. Water and Liquids

1. How does oil affect water pollution?
2. Can you clean dirty water using filters?
3. Why does ice float on water?
4. How does salt affect boiling water?
5. What liquids freeze the fastest?
6. Can you make a rainbow with water and sunlight?
7. How does water travel through plants?
8. What happens when you mix oil and water?
9. How does soap affect surface tension?
10. Can you make a water clock?

5. Electricity and Magnetism

1. How do batteries work?
2. Can you make a simple circuit?
3. What materials conduct electricity?
4. How do magnets attract or repel?
5. Can you make an electromagnet?
6. What happens when you mix static electricity and water?
7. How do compasses work?
8. Can you power a light bulb with a lemon?
9. What materials block magnetic fields?
10. How does a doorbell work?

6. Chemistry

1. What happens when you mix vinegar and baking soda?
2. How do crystals form?
3. Can you make slime at home?
4. What happens when you dissolve sugar in water?
5. How do different liquids react with Alka-Seltzer?
6. Can you make invisible ink?
7. What happens when you mix milk and food coloring?
8. How does pH affect cleaning products?
9. Can you separate salt from water?
10. What happens when you mix oil, water, and dish soap?

7. Physics

1. How does a pendulum swing?
2. What affects how far a ball rolls?
3. How do pulleys make lifting easier?
4. Can you build a simple catapult?
5. How does gravity affect falling objects?
6. What makes a balloon rocket move?
7. How does friction affect movement?
8. Can you make a hovercraft with a CD?
9. What materials make the best parachute?
10. How does a seesaw balance?

8. Earth Science

1. How do rocks form?
2. What causes erosion?
3. How do fossils form?
4. Can you make a volcano erupt?
5. What types of soil absorb water the best?
6. How do caves form?
7. What causes earthquakes?
8. How does sand differ from soil?
9. Can you identify different types of rocks?
10. How do glaciers move?

9. Astronomy

1. How does the moon change shape?
2. What causes day and night?
3. How do stars twinkle?
4. Can you make a model of the solar system?
5. What causes the seasons?
6. How does a sundial tell time?
7. Can you see constellations in the night sky?
8. How far away are the planets?
9. What causes meteor showers?
10. How does the Earth rotate?

10. Human Body

1. How does exercise affect your heart rate?
2. What happens when you mix saliva and crackers?
3. How does your sense of smell affect taste?
4. Can you test your reflexes?
5. How many germs are on your hands?
6. What happens when you hold your breath?
7. How does sleep affect memory?
8. Why do we yawn?
9. How does the tongue taste different flavors?
10. What happens when you sneeze?

11. Food Science

1. Which fruit has the most vitamin C?
2. How does yeast make bread rise?
3. What happens when you freeze different liquids?
4. Can you make butter from cream?
5. How does popcorn pop?
6. What makes cookies soft or crunchy?
7. How does temperature affect candy making?
8. Can you make cheese at home?
9. What happens when you cook an egg?
10. How does salt affect boiling pasta?

12. Engineering

1. How can you build the tallest tower with straws?
2. What materials make the strongest bridge?
3. Can you design a paper airplane that flies the farthest?
4. How do gears work?
5. Can you build a car powered by rubber bands?
6. What materials make the best insulator?
7. How does a periscope work?
8. Can you build a house out of recycled materials?
9. How does a lever work?

10. Can you design a windmill that spins?

13. Environment

1. How does recycling help the environment?
2. What materials decompose the fastest?
3. How does litter affect wildlife?
4. Can you make compost at home?
5. How does deforestation affect animals?
6. What happens when you pollute water?
7. How do trees reduce air pollution?
8. Can you grow plants in recycled containers?
9. How does plastic waste affect oceans?
10. What materials are biodegradable?

14. Sound and Hearing

1. How do musical instruments make sound?
2. Can you make a kazoo?
3. How does sound travel through different materials?
4. What materials block sound the best?
5. How does a whisper travel?
6. Can you see sound waves?
7. How does an echo form?
8. What happens when you hum into a cup?
9. How does volume affect hearing?
10. Can you make a phone with string and cups?

15. Light and Vision

1. How does a prism split light?
2. Can you make a kaleidoscope?
3. How does a mirror reflect light?
4. What materials block light the best?
5. How does a camera obscura work?
6. Can you make a shadow puppet theater?
7. How does light bend through water?
8. What happens when you mix colors of light?
9. How does a magnifying glass work?

10. Can you make a pinhole camera?

16. Space Exploration

1. How do rockets launch?
2. Can you make a model of the ISS?
3. How does zero gravity affect astronauts?
4. What materials protect against radiation?
5. How do spacesuits work?
6. Can you simulate a Mars rover?
7. What causes space junk?
8. How do satellites orbit Earth?
9. Can you design a lunar lander?
10. How do astronauts eat in space?

17. Math and Patterns

1. How do patterns appear in nature?
2. Can you measure the height of a tree?
3. How does symmetry work in art?
4. What shapes are strongest in building?
5. How do tessellations work?
6. Can you count the spirals in a pinecone?
7. How do fractions divide a pizza?
8. What's the Fibonacci sequence in flowers?
9. How do angles affect ramps?
10. Can you create a math-based board game?

18. Technology

1. How does a printer work?
2. Can you program a simple robot?
3. How does a remote control work?
4. What makes a computer fast?
5. Can you make a simple alarm system?
6. How does Wi-Fi connect devices?
7. What materials block Wi-Fi signals?
8. How does a drone fly?
9. Can you build a simple circuit board?

10. How does virtual reality work?

19. Art and Science

1. How do colors mix to make new ones?
2. Can you make paint from natural materials?
3. How does perspective work in drawing?
4. What materials make the best paintbrush?
5. How does clay harden?
6. Can you make a sculpture that moves?
7. How does paper folding create strength?
8. What happens when you mix art and science?
9. Can you make a lava lamp with art supplies?
10. How do shadows create art?

20. Fun Experiments

1. How does a Mentos and soda explosion work?
2. Can you make a dancing raisin?
3. How does a balloon stick to the wall?
4. What happens when you mix cornstarch and water?
5. Can you make a homemade lava lamp?
6. How does a candle burn underwater?
7. What happens when you freeze bubbles?
8. Can you make a magic milk experiment?
9. How does a rubber egg form?
10. What happens when you soak a gummy bear in water?