

Science Fair Project Ideas

This list is divided into three levels by difficulty: level 1, level 2, & level 3

These are just ideas, projects are not limited to the following!!

Level 1

Animal Studies

- Do ants like cheese or sugar better?
- What food do mealworms prefer?
- How does omitting an ingredient affect the taste of cookies?
- Do mint leaves repel ants?
- Which travels faster- a snail or worm?
- On which surface can a snail move faster- dirt or cement?
- Does holding a mirror in front of a fish change what a fish does?
- How far does a snail travel in one minute?
- How much can a caterpillar eat in one day?

Consumer Testing

- Which brand of raisin cereal has the most raisins?
- Which dish soap makes the most bubbles?
- Which paper towel is the strongest?
- Which type of battery do toys run the longest?
- Which laundry detergent works the best?

Plant Studies

- Do roots of plants always grow downward?
- Can plants grow without soil?
- Will bananas brown faster on the counter or the refrigerator?
- Does temperature affect the growth of plants?
- Can plants grow from the leaves?
- Do bigger seeds produce bigger plants?
- What is the soil in my schoolyard made of?
- Does a plant grow bigger if watered with milk or water?

Water

- Does a bath take less water than a shower?
- Does warm water freeze faster than cool water?
- Which materials absorb in water- salt or baking soda?
- How long will it take a drop of food dye to color a glass of still water?

Animal Studies

- Does an earthworm react to light and darkness?
- Does surrounding color affect an insect's eating habits?
- Do different kinds of caterpillars eat different amounts of food?
- How long does an animal remember?
- Can birds distinguish color?
- Are cats right or left pawed?
- Do animals have color preferences?
- Which dog food does my dog like best?
- Do dogs have blood types?
- How strong is an animal's sense of smell?
- Can insects learn?
- How well do animals see?

Human Studies

- Can you tell time without a watch or clock?
- Is using eyes to judge distance more accurate than using one eye?
- Do boys or girls have a higher resting point?
- Do taller people run faster than shorter people?
- Who can balance better on the balls of their feet- girls or boys?
- Does exercise affect heart rate?

Comparative Studies

- What kind of juice cleans pennies best?
- Do watches keep the same time?
- Do suction cups stick equally to different surfaces?
- Which cheese grows mold faster?

Human Studies

- In my class, who is taller- boys or girls?
- Does anyone in my class have the same fingerprints?
- Which student in my class has the greatest lung capacity?
- How far can a person lean without falling?
- In my class, who has bigger feet- girls or boys?
- In my class, who has the smallest hands- girls or boys?

Physical Science

- Can the design of a paper airplane make it fly farther?
- Do wheels reduce friction?
- Does a ball roll farther on grass or dirt?
- What holds two boards together- a nail or a screw?
- Do all objects fall to the ground at the same speed?
- What kind of things to magnets attract?
- How can you measure the strength of a magnet?
- How much salt does it take to float an egg?
- Does the water with salt boil faster than plain water?
- Does an ice cube melt faster in air or water?
- Can you tell what something is just by touching it?
- Can you tell where sound comes from when you are blindfolded?
- Can things be identified by just their smell?
- Does the length of a vibrating object affect sound?

Level 2

Comparative Studies

- Do people learn better through praise or fear?
- What factors affect the growth of yeast?
- What firewood burns the longest & gives out the most heat?
- What is the favorite toothpaste of kids?

Consumer Testing

- Which brand of popcorn pops the kernels?
- Which brand of popcorn pops faster?
- Which brand of diaper holds the most water?
- Which type of cleaner sink stains best?
- Which brand of soap makes the most suds?
- Which plastic trash bag is the strongest?
- Which houseplant fertilizer works best?

(level 2 cont.)

Human Studies

Is the world fair to left handed people?
How does sugar affect children?
How fast do fingernails grow?

Physical Science

Which liquid has the highest viscosity?
Will more air inside a basketball make it bounce higher?
Do all colors fade at the same rate?
Does a baseball go farther when hit by a wood or metal bat?
What kind of glue holds wood better?
Does the width of a rubber band affect how far it will stretch?
In which way does the wind blow most frequently?
What common liquids are acid, base or neutral?
Do sugar crystals grow faster in tap water or distilled water?
What determines how fast a piece of candy dissolves?
What is the best soap for washing dishes?
In a coin toss, should you call heads or tails?
What causes a ring in your bathtub?

Animal Studies

How do day old domestic chicks behave?

What are the humidity preferences of a flour beetle?
How does earthworm population relate with soil type?
What are the habits of birds in your area?
Are fish affected by magnetism?
Environmental effects the growth of bread mold?
What type of oil has the greatest density?
How is the rate of melting snow affected by color?
Which type of sunglass lens blocks the most light?
Which materials keep ice cubes from melting for the longest time?
Which amount of air space is the best insulator for storm windows?

Plant Studies

Does green plant add oxygen to its environment?
What percentage of corn seeds in a package will germinate?
How do flowers produce seeds?
What are the effects of chlorine on plant growth?
How does centrifugal force affect the germination of corn seeds?
How does the light direction affect plant growth?
What is the effect of acid rain on plants?

Plant Studies

Do different types of soil hold different amounts of water?
Does sugar prolong the life of cut flowers?
Will adding bleach to the water of a plant reduce fungus growth?
How much of an orange is water?
Does the color of light effect plant growth?
Do plants grow bigger in soil or water?
How much weight can a growing plant lift?
Does it matter in which direction seeds are planted?
Do living plants give off moisture?
What plant food contains starch?

Water

Does baking soda lower the temperature of water?
Does the color of water affect its evaporation?
Can you separate salt from water by freezing?
Will water with salt evaporate faster than water without salt?
What type of soil filters water best?
Can dirty water pass through gravel & sand and become cleaner?
Which freezes faster- hot or cold water?

Level 3

Consumer Testing

Which videotape maintains the best picture for the greatest amount of time?
Which home smoke detector is most sensitive?
Which engine oil reduces friction the most?
Does home insulation work best?
Which self-adhesive floor tile resists wear the most?
Research a science career that interests you.

Human Studies

Does the human tongue have definite areas for certain taste?
Do children's heart rates increase as they get older?
Does heart rate increase with increasing sound volume?
Can you see better if you limit the light that gets to your eye?
How accurate do people judge temperature?
How does coffee affect blood pressure?

Physical Science

Which type of line carries sound waves best?
Which metal conducts heat best?
Does the viscosity of a liquid affect its boiling point?
What materials provide the best insulation?
Does the slope of land effect its absorption of heat?
What factors affect the rate at which a pendulum swings?

****Internet is a good source for other ideas!!!!**