



249+ Exciting 6th Grade Science Project Ideas

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Find simple and fun 6th grade science project ideas that make learning easy and exciting. Explore cool experiments on plants, volcanoes, gravity, and more!

Are you looking for some of the exciting 6th grade science project ideas? Science is all about exploring how things work. There are lots of ways to do science experiments or test

science in real life.

Whether you're curious about how plants grow to see how gravity acts on different types of weights, there is a lot you can do with science projects.

You'll get to test ideas, make cool observations, and see science in action. From simple chemical reactions to learning about natural forces, these projects will make science fun and easy to understand. Ready to jump in and explore?

Let's check out some awesome 6th grade science project ideas that are easy, exciting, and sure to get you curious!

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Importance of Science Projects for 6th Graders

Here are some simple reasons why science projects are important for 6th graders:

Benefit	Description
Learn by doing	Makes science easier to understand.
Think critically	Helps solve problems and make decisions.

Benefit	Description
Be creative	Encourages new ideas and experiments.
Stay curious	Sparks interest in science and the world.
Work together	Teaches teamwork and sharing ideas.
Build confidence	Boosts self-confidence through success.
Connect to real life	Shows how science is used every day.
Improve communication	Helps explain ideas clearly.
Prepare for the future	Lays the groundwork for more science learning.
Have fun	Makes learning science enjoyable and exciting.

6th Grade Science Project Ideas

Here are some of the best 6th grade science project ideas:

Physics and Motion

1. Drop objects from different heights and see which hits first.
2. Roll objects down a ramp to see which is fastest.
3. Test how magnets attract metal objects.
4. Build a catapult to throw things.
5. Use a pulley to lift weights.
6. See how ramp angles change speed.
7. Drop balls on different surfaces and see how they bounce.
8. Drop things and watch how air affects them. 9 Test how speed changes on different surfaces.

9. Fold paper planes and see which flies the farthest.

Biology and Life Science

1. Grow plants with different light and water.
2. Watch how mold grows on bread.
3. See how different soils affect plant growth.
4. Compare plant growth in sun and shade.
5. Build a human skeleton model.
6. Watch yeast make dough rise.
7. Grow seeds and see how they sprout.
8. Build a heart model.
9. Test how temperature affects plant growth.
10. Grow crystals from salt or sugar.

Chemistry

1. Mix baking soda and vinegar for fizz.
2. Grow sugar crystals.
3. Test liquids with baking soda.
4. Create a volcano with baking soda and vinegar.
5. See how salt helps preserve food.
6. Make colorful layers with liquids.
7. See how soap cleans oil.
8. Test how fast sugar dissolves in water.
9. Watch metal rust.
10. Make a lava lamp with oil and water.

Earth Science

1. Build a water cycle model.
2. Create a volcano with baking soda.
3. Make a model of erosion in nature.
4. See how different soils hold water.

5. Measure water evaporation in different conditions.
6. Track seasonal weather changes.
7. Build an earthquake model.
8. Test how sunlight affects temperature.
9. Build a cloud chamber.
10. Observe moon phases for a month.

Environmental Science

1. Test how long things take to decompose.
2. Make a compost pile and track it.
3. Measure air pollution.
4. Build a simple water filter.
5. Study animal adaptations to the environment.
6. Track your family's waste for a week.
7. Measure energy use and try to save.
8. Test how trash affects the environment.
9. Make a solar panel to power a light.
10. Study the effects of recycling.

Technology and Engineering

1. Build a popsicle stick bridge and test its strength.
2. Make a simple electric circuit.
3. Build a windmill to generate power.
4. Create a car powered by a rubber band.
5. Build a lever to lift heavy objects.
6. Make a catapult.
7. Design a solar oven.
8. Create a hovercraft with a balloon.
9. Build a robot with cardboard and motors.
10. Make a working crane model.

Astronomy and Space

1. Make a solar system model.
2. Build a simple telescope with a mirror.
3. Track moon phases.
4. Create a lunar eclipse model.
5. Build a sundial.
6. Build a rocket with baking soda.
7. Make a star chart.
8. Test how colored lights affect plant growth.
9. Drop objects to simulate gravity.
10. Make a comet model.

Human Body and Health

1. Measure how your heart rate changes after exercise.
2. Test how food affects your energy.
3. Build a digestive system model.
4. Test your memory with a list of items.
5. Track your sleep and energy.
6. Measure how exercise affects breathing.
7. See how germs spread on objects.
8. Measure how much water your body needs.
9. Test your reaction time with different senses.
10. Study how exercise changes your mood.

See also [111+ Best And Exciting Actuarial Science Project Topics](#)

Sound and Music

1. Make a musical instrument like a drum or guitar.
2. Test how sound travels through different materials.
3. Test how string length changes sound.
4. Build a sound-proof box.
5. See how loud sounds affect plants.

6. Measure how far sound travels in different places.
7. Create an echo by bouncing sound.
8. Build a tuning fork to make sound.
9. Test vibration in musical instruments.
10. Make a xylophone and test notes.

Chemistry in Everyday Life

1. Test how soap cleans dishes.
2. Make soap with simple ingredients.
3. See how baking soda makes cake rise.
4. Mix baking soda and vinegar for a fizzy drink.
5. Test how vinegar works in cooking.
6. See how salt preserves food.
7. Test how air pressure affects balloons.
8. Make a fizzy drink with citric acid.
9. Test how sugar affects cookies.
10. See how different liquids clean stains.

Renewable Energy

1. Build a small windmill for power.
2. Test how much energy a solar panel creates.
3. Build a solar oven and cook with it.
4. Make a water turbine to generate energy.
5. Test how different materials absorb sunlight.
6. Build a model of a [hydroelectric](#) dam.
7. Use solar power to light up a bulb.
8. Make a solar-powered car.
9. Track how much energy you save by turning things off.
10. Compare energy sources like solar and battery.

Forces and Motion

1. Test how friction affects movement.
2. Build a rocket with baking soda.
3. See how ramp angles change speed.
4. Build a balloon-powered car.
5. Test how weight affects speed.
6. See how different materials affect bouncing.
7. Build a pulley system to lift things.
8. See how mass affects speed.
9. Create an earthquake model to study shaking.
10. Test air resistance with falling objects.

Water and Oceanography

1. Build a simple water filter.
2. See how saltwater freezes.
3. Build ocean waves with water.
4. Test how oil and water don't mix.
5. Make a water cycle in a bag.
6. See how different liquids float or sink.
7. Test how pollution affects water.
8. Make a model of ocean currents.
9. See how temperature affects evaporation.
10. Test how soils absorb water.

Food Science

1. Test how temperature melts ice.
2. See how baking soda makes food rise.
3. Compare how bread molds.
4. Make ice cream with milk and sugar.
5. Test how different storage methods affect fruit.
6. See how salt affects boiling water.
7. Study how yeast helps bread rise.
8. Measure water content in fruits.

9. Compare cooked and raw vegetables.
10. Make a healthy snack and track your energy.

Magnetism

1. Test how magnets attract metal.
2. Build a compass with a magnet and needle.
3. Use magnets to move things.
4. Make an electromagnet with wire and a battery.
5. See how the size of magnets affects strength.
6. Measure how magnets work at different distances.
7. Build a magnet-powered car.
8. Use magnets to pick up paper clips.
9. Test how magnets attract and repel.
10. Separate iron from sand with a magnet.

Optics and Light

1. Build a magnifying glass.
2. Use mirrors to change light direction.
3. Test how materials affect light speed.
4. Make a rainbow with a glass of water.
5. Build a periscope.
6. Test how light bends through glass.
7. Build a simple microscope.
8. See how light travels through different liquids.
9. Track how shadows change during the day.
10. Test brightness of different light bulbs.

Climate and Weather

1. Build a rain gauge.
2. Track temperature in different seasons.
3. Build a weather vane.

4. Measure wind speed with an anemometer.
5. Test how humidity affects plants.
6. Build a barometer to measure air pressure.
7. Track how water evaporates.
8. Build a water cycle model.
9. See how the sun moves in the sky.
10. Make a simple weather forecast.

Ecology

1. Make a food chain model.
2. Study how pollution affects animals.
3. Grow plants in different environments.
4. See how deforestation affects animals.
5. Track your family's weekly trash.
6. Study how animals live in ecosystems.
7. Track how plants affect soil.
8. Build a terrarium and study plants inside.
9. Track how animal populations change.
10. Study how different ecosystems support animals.

Psychology and Behavior

1. Test how memory works with lists.
2. Measure reactions to sounds.
3. Study how stress affects behavior.
4. Track how exercise changes mood.
5. Test how well you concentrate.
6. Test how long it takes to remember things.
7. Study how distractions affect focus.
8. Track time spent on tasks.
9. Study group behavior.
10. Test how music affects mood.

Robotics

1. Build a simple robot with motors.
2. Program a robot to move.
3. Make a robot follow a line.
4. Build a robot to pick up things.
5. Program a robot for simple tasks.
6. Test a robot's ability to avoid obstacles.
7. Build a robot that changes direction when it hits a wall.
8. Sort objects with a robot.
9. Program a robot to draw or write.
10. Test how materials affect robot movement.

Award Winning 6th Grade Science Fair Projects

Here are some easy and award-winning science fair projects for 6th grade:

[See also 60 Best Science Investigatory Project Ideas for High School](#)

Can Plants Grow Without Soil?

What You Need:

- Seeds
- Cotton balls, water, plastic containers

Steps:

1. Put seeds on wet cotton balls.
2. Watch them grow without soil.

Why It's Impressive: It shows how plants can grow with just water.

Which Battery Lasts the Longest?

What You Need:

- Different brands of AA batteries
- Flashlights or small devices

Steps:

1. Put each battery into a device.
2. Time how long each one lasts.

Why It's Impressive: It tests which battery is the best.

Does Sugar Make Fruit Rot Faster?

What You Need:

- Fresh fruit (like apples or bananas)
- Sugar, water, and containers

Steps:

1. Coat some fruits with sugar.
2. Leave others without sugar.
3. Watch which ones rot first.

Why It's Impressive: It shows how sugar affects fruit decay.

How Does Heat Affect Magnets?

What You Need:

- Magnets
- Paper clips
- Hot and cold water

Steps:

1. Heat and cool the magnets.
2. Test how many paper clips each can pick up.

Why It's Impressive: It shows how heat changes magnet strength.

Can Solar Power Cook Food?

What You Need:

- Cardboard box, aluminum foil
- Plastic wrap, black paper, marshmallows

Steps:

1. Make a solar oven with the materials.
2. Put food inside and leave it in the sun.

Why It's Impressive: It shows how the sun can cook food.

What Cleans Hands Better: Soap or Hand Sanitizer?

What You Need:

- Soap and hand sanitizer
- Petri dishes, gelatin

Steps:

1. Touch gelatin with clean hands after using soap or sanitizer.
2. See which one prevents bacteria the best.

Why It's Impressive: It compares how well soap and sanitizer clean.

Which Paper Towel is the Most Absorbent?

What You Need:

- Different brands of paper towels
- Water

Steps:

1. Dip paper towels in water and see how much they absorb.
2. Compare results for each brand.

Why It's Impressive: It shows which paper towel is best for cleaning.

Can Plants Survive on Different Types of Water?

What You Need:

- Plants
- Tap water, saltwater, distilled water

Steps:

1. Water plants with different types of water.
2. Watch how they grow.

Why It's Impressive: It shows how water type affects plant health.

Do Different Colors Absorb Heat?

What You Need:

- Colored paper (black, white, etc.)
- Thermometer and sunlight

Steps:

1. Place paper under each color in the sun.
2. Record the temperature after some time.

Why It's Impressive: It shows how colors absorb heat differently.

Can You Purify Water with the Sun?

What You Need:

- Plastic wrap, bowl, dirty water, small glass

Steps:

1. Put dirty water in a bowl and place a glass in the center.
2. Cover with plastic wrap and let the sun clean the water.

Why It's Impressive: It shows how solar energy can purify water.

Science Projects for Class 6 [Easy]

Here are some easy science projects for class 6:

Lava Lamp

What You Need:

- Clear bottle
- Water, vegetable oil
- Food coloring
- Alka-Seltzer tablet

Steps:

1. Fill the bottle with oil and water.
2. Add food coloring.
3. Drop in an Alka-Seltzer tablet. Watch the bubbles move.

How It Works: The tablet creates bubbles, and the oil and water don't mix.

Balloon Rocket

What You Need:

- Balloon
- String
- Straw
- Tape

Steps:

1. Tape a straw to a balloon.
2. Thread the string through the straw.
3. Inflate the balloon and let it go!

How It Works: The air from the balloon pushes it forward.

Rainbow in a Glass

What You Need:

- Water
- Sugar
- Food coloring
- Clear glass

Steps:

1. Mix water and sugar (more sugar in each layer).
2. Add food coloring.
3. Carefully layer the liquids in a glass.

How It Works: The different sugar levels make the liquids stay separate.

Paper Towel Plant Growth

What You Need:

- Seeds (like beans)
- Wet paper towel

- Plastic bag

Steps:

1. Place a wet paper towel in a plastic bag.
2. Add the seeds.
3. Watch them sprout in a few days.

How It Works: Seeds need water to start growing.

Homemade Compass

What You Need:

- Needle
- Magnet
- Bowl of water
- Cork

Steps:

1. Rub a magnet on the needle.
2. Place the needle on a cork and put it in water.

How It Works: The needle points north because of Earth's magnetic field.

6. Color-Changing Milk

What You Need:

- Milk
- Food coloring
- Dish soap
- Plate

Steps:

1. Pour milk into a plate and add food coloring.
2. Dip a cotton swab in dish soap and touch the milk.

How It Works: The soap moves the colors around by breaking down the milk's fat.

Floating Egg

What You Need:

- Egg
- Water
- Salt
- Glass

Steps:

1. Fill one glass with plain water and another with saltwater.
2. Drop the egg in both glasses.

How It Works: The saltwater makes the egg float because it is denser.

Magic Pepper

What You Need:

- Water
- Black pepper
- Dish soap

See also [Top 199+ reMarkable Periodic Table Project Ideas](#)

Steps:

1. Sprinkle pepper on the water.
2. Dip your finger in dish soap and touch the water.

How It Works: The soap makes the pepper move away by breaking the surface tension of the water.

Simple Circuit

What You Need:

- Battery
- Wire
- Small light bulb

Steps:

1. Connect the wire to the battery and the bulb.
2. Watch the light turn on.

How It Works: The battery makes the current flow and lights up the bulb.

Bottle Tornado

What You Need:

- Two plastic bottles
- Water
- Duct tape

Steps:

1. Fill one bottle with water.
2. Tape the two bottles together.
3. Spin them to make a tornado.

How It Works: Spinning the water makes it form a vortex between the bottles.

6th Grade Science Project Ideas High School

Here are some **easy science project ideas for 6th grade** that can impress even in high school:

Does Music Help Plants Grow?

What You Need:

- Plants (same type)
- Different music (classical, pop, or no music)
- Water and sunlight

Steps:

1. Play a different type of music for each plant every day.
2. Watch how they grow over a few weeks.

Why It Works: It shows how sound might affect plants.

Make a Water Filter

What You Need:

- Plastic bottle
- Sand, gravel, and charcoal
- Coffee filter

Steps:

1. Cut the bottle and layer sand, gravel, and charcoal inside.
2. Pour dirty water in and watch it come out cleaner.

Why It Works: It shows how materials can clean water.

Baking Soda Volcano

What You Need:

- Vinegar, baking soda
- Dish soap, food coloring
- Plastic bottle

Steps:

1. Build a volcano shape around the bottle.
2. Add vinegar, soap, and coloring. Then, add baking soda and watch it erupt!

Why It Works: The reaction creates bubbles of gas that look like an eruption.

Static Electricity with Balloons

What You Need:

- Balloon
- Small paper pieces or a can

Steps:

1. Rub the balloon on your hair.
2. Hold it near paper or a can to see it move.

Why It Works: Static electricity attracts objects.

Make a Solar Oven

What You Need:

- Cardboard box
- Aluminum foil, plastic wrap
- Black paper

Steps:

1. Cover the box with foil and black paper.
2. Put food inside and cover it with plastic wrap.

3. Leave it in the sun and watch it cook!

Why It Works: The oven traps heat from the sun to cook food.

Does Heat Affect Magnets?

What You Need:

- Magnets
- Paper clips
- Hot and cold water

Steps:

1. Heat and cool the magnets.
2. Test how many clips they can pick up.

Why It Works: Heat can weaken a magnet's strength.

Test Liquids with Red Cabbage

What You Need:

- Red cabbage
- Vinegar, baking soda, water

Steps:

1. Blend cabbage and water to make purple juice.
2. Add liquids and watch the color change.

Why It Works: The juice changes color to show if a liquid is acidic or basic.

Egg in a Bottle

What You Need:

- Hard-boiled egg

- Glass bottle
- Matches

Steps:

1. Light a match and drop it in the bottle.
2. Place the egg on top and watch it get pulled inside.

Why It Works: The fire changes the air pressure, sucking the egg in.

Build a Strong Bridge

What You Need:

- Popsicle sticks
- Glue
- Weights

Steps:

1. Make bridges with different shapes, like triangles or arches.
2. Test which one holds the most weight.

Why It Works: Some shapes are stronger than others.

Soap and Water Surface Tension

What You Need:

- Water
- Dish soap
- Coins

Steps:

1. Drop water on a coin until it overflows.
2. Add soap to the water and try again.

Why It Works: Soap makes water less sticky, so it holds less.

These projects are simple, fun, and great for learning science!

What projects do you do in 6th grade?

Here are some easy and fun science projects for 6th graders:

Plant Growth

- Test how plants grow with different amounts of water or light.
- Example: Do plants grow better in sunlight or in the dark?

Volcano Eruption

- Use baking soda and vinegar to make a volcano.
- Watch it “erupt” with bubbles.

Static Electricity

- Rub a balloon on your hair and use it to move paper or a can.
- Learn how static electricity works.

Solar Oven

- Make an oven with a box, foil, and plastic wrap.
- Use it to cook something small like a marshmallow.

Water Filter

- Build a filter with sand, gravel, and charcoal.
- See how it cleans dirty water.

Magnet Strength

- Test if magnets are stronger when cold or hot.

- Use a magnet to pick up paper clips.

Egg Drop

- Make a container to protect an egg from breaking when dropped.
- Use materials like straws or tape.

Red Cabbage Experiment

- Use red cabbage juice to test liquids like vinegar or soda.
- Watch the colors change to see if they're acidic or basic.

Floating and Sinking

- Test which objects float or sink in water.
- Learn why some things float and others don't.

Sundial

- Use a stick and some markers to make a clock using sunlight.
- Watch how the shadow moves during the day.

These projects are simple, fun, and great for learning science!

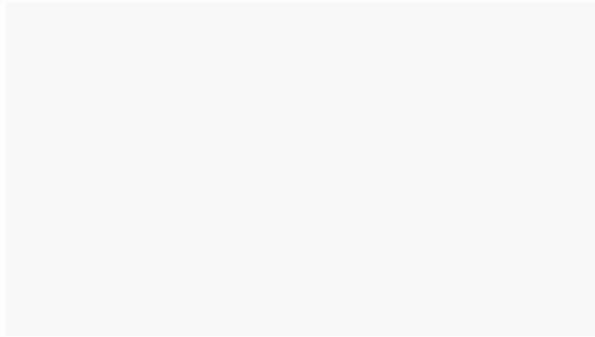
Conclusion

In conclusion, 6th grade science projects are a fun way to learn. They help students explore things like plants, animals, chemistry, and physics. By doing experiments, students can see how science works.

These projects make learning exciting and help students understand the world better. There are many different ideas to choose from, so everyone can find something they enjoy!

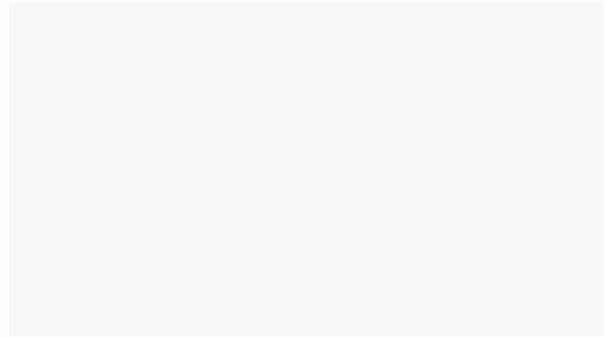
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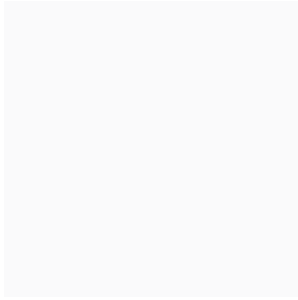
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