



# 169+ Creative and Fun 7th Grade Science Fair Project Ideas

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Looking for simple and fun 7th grade science fair project ideas? Explore easy projects in biology, chemistry, physics, and more to make your science fair a success!

It is the best chance to explore some of the cool science fair projects you can try out. Whether you are curious about plants, how things move, mixing chemicals or anything, there are a lot more exciting projects to choose from.

In this article, we are going to share with you some of the awesome and easy 7th grade science fair project ideas. The best part, these projects are simple to use and you will enjoy working on them. Let's dive into exploring the perfect project to make your science fair stand out!

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# Choosing the Right Project

Here are the best tips for choosing the right project:

Step	Description
<b>Pick What Interests You</b>	Choose a topic you enjoy (plants, physics, etc.).
<b>Check What You Have</b>	Make sure you have all materials and tools needed for your project.
<b>Choose a Manageable Challenge</b>	Pick a project that's interesting but not too hard to do.
<b>Think About Time</b>	Consider how much time you have to complete your project.

Step	Description
<b>Look for Unique Ideas</b>	Choose something different to make your project stand out.
<b>Have a Clear Question</b>	Your project should answer a question or solve a problem.
<b>Make It Fun</b>	Pick a project that will be enjoyable to work on. The more fun, the better!

## 7th Grade Science Fair Project Ideas

Here are the 7th grade science fair project ideas:

### 7th Grade Science Fair Project Ideas Physics

1. Test how things fall from different heights.
2. Explore how magnets affect different materials.
3. Measure how sound travels through different things.
4. See how light bounces off mirrors.
5. Test how levers and pulleys move objects.
6. Compare how objects slide on different surfaces.
7. See how heat moves between materials.
8. Measure how fast objects roll down a ramp.
9. Test how magnets' strength changes with distance.
10. Explore how air pressure affects objects.

### 7th Grade Science Fair Project Ideas Chemistry

1. Mix baking soda and vinegar and watch the reaction.
2. See how metals rust over time.
3. Test how liquids dissolve solids.
4. Check how different chemicals affect plant growth.
5. Compare how food stays fresh in different conditions.
6. Build a simple water filter and test it.
7. See how liquids of different densities mix.

8. Grow sugar crystals from a solution.
9. Change liquid colors with simple chemical reactions.
10. Test how acids and bases affect pH levels.

## **7th Grade Science Fair Project Ideas Environmental Science**

1. Test how recycling reduces waste.
2. Measure how pollution affects water quality.
3. See how air quality changes in different places.
4. Compare how plants grow with and without pollution.
5. Study how climate change affects nature.
6. Build a solar-powered device to test renewable energy.
7. See how much water different plants need.
8. Learn how invasive species affect local plants and animals.
9. Test how noise pollution affects animals.
10. See how temperature affects water evaporation.

## **7th Grade Science Fair Project Ideas Biology**

1. Test how light affects plant growth.
2. Study how exercise changes heart rate.
3. See how salt affects plant growth.
4. Test how different foods affect energy.
5. See how bacteria grow on surfaces.
6. Study how water quality affects fish survival.
7. Test how different materials affect heat.
8. See how sugar affects yeast.
9. Study how temperature affects enzymes.
10. See how plants make oxygen.

## **7th Grade Science Fair Project Ideas Earth Science**

1. Study how erosion happens in different places.
2. See how soil holds water.
3. Test how weather affects plants.
4. Compare how wind affects objects.
5. See how materials react to heat.

6. Test how the moon affects tides.
7. Study how volcanoes affect the environment.
8. Build a model to collect rainwater.
9. Test how rocks react in different climates.
10. Study weather patterns in your area.

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

## 7th Grade Science Fair Project Ideas Psychology

1. See how colors affect mood.
2. Test how distractions affect memory.
3. Test how music affects concentration.
4. See how light affects sleep.
5. Study how rewards help you learn.
6. Test how emotions affect decisions.
7. See how exercise affects thinking.
8. Study how temperature affects mood.
9. Test how scents affect memory.
10. See how stress affects problem-solving.

## 7th Grade Science Fair Project Ideas Technology

1. Build a simple robot.
2. See how touchscreens affect focus.
3. Test how materials affect Wi-Fi signals.
4. Build a solar-powered car.
5. Study how video games affect reaction time.
6. See how LED lights save energy.
7. Build an eco-friendly house model.
8. Test how different energy sources work.
9. Study how screen time affects sleep.
10. Build a wind turbine and test how it works.

## 7th Grade Science Fair Project Ideas Weather

1. Measure temperature in different places.

2. See how humidity affects plants.
3. Study how clouds form.
4. Test how wind affects evaporation.
5. Study how temperature and air pressure are connected.
6. See how the sun affects weather.
7. Study rainfall in different areas.
8. Test how sunlight affects weather.
9. See how different colors absorb heat.
10. Study how ocean currents change the climate.

## **7th Grade Science Fair Project Ideas Energy**

1. Build a small solar-powered generator.
2. Test how different light bulbs use energy.
3. Study how wind makes energy.
4. See how insulation affects energy loss.
5. Test how different objects store energy.
6. See how different materials conduct heat.
7. Build a waterwheel to make electricity.
8. Study how different fuels make energy.
9. Compare how energy-efficient appliances save electricity.
10. See how motion creates energy.

## **7th Grade Science Fair Project Ideas Robotics**

1. Build a robot that follows a line.
2. Study how robots help the environment.
3. Test how robots move on different surfaces.
4. Learn how robots are used in space.
5. Build a robot that picks up objects.
6. See how robots are used in medicine.
7. Test how robots use sensors.
8. Build a robot to sort objects by size.
9. See how robots learn on their own.
10. Study how robots help in emergencies.

## **7th Grade Science Fair Project Ideas Anatomy**

1. Study how blood moves through the body.
2. See how bones support the body.
3. Test how muscles help us move.
4. Study how the brain controls movement.
5. Learn how the digestive system works.
6. Test how lungs work during exercise.
7. See how the heart pumps blood.
8. Study how different organs work together.
9. Learn how the nervous system controls the body.
10. Study how exercise affects the lungs.

## **7th Grade Science Fair Project Ideas Space**

1. Learn about the phases of the moon.
2. Study how planets move.
3. Test how gravity works on different planets.
4. Build a model of the solar system.
5. Learn how stars are made.
6. Study how comets move.
7. See how astronauts stay healthy in space.
8. Study how space technology helps us.
9. Compare the moon's surface with Earth's.
10. See how meteors hit planets.

## **7th Grade Science Fair Project Ideas Plants**

1. Test how different lights affect plant growth.
2. Study how water helps plants grow.
3. See how temperature affects plant growth.
4. Test how different soils help plants grow.
5. Study how plants survive in different places.
6. Learn how plants make oxygen.
7. See how fertilizers help plants grow.
8. Test how plant roots soak up water.
9. Study how plants use sunlight.
10. See if plants react to sounds.

## **7th Grade Science Fair Project Ideas Nutrition**

1. Test how food affects energy.
2. Study how food affects health.
3. See how the body breaks down sugar.
4. Compare different snacks for nutrition.
5. Learn how vitamins help growth.
6. Study how exercise uses up energy.
7. Test how liquids help with hydration.
8. See how the body stores fat.
9. Learn how protein helps muscles.
10. Compare diets and their effect on metabolism.

## 7th Grade Science Fair Project Ideas Materials Science

1. Test how materials conduct electricity.
2. Study how materials react to heat.
3. See how materials hold up under pressure.
4. Test how materials expand with heat.
5. Compare how durable materials are in different conditions.
6. See how materials stretch or bend.
7. Test how materials absorb sound.
8. Study how materials react to water.
9. Test how materials keep heat in.
10. See how materials can be recycled.

See also [119+ Elite Cell Analogy Project Ideas](#)

## How to Conduct Your Experiment?

Here are the best tips to conduct your experiment:

Step	Description
<b>Plan</b>	Write down the steps you need to follow.
<b>Gather Materials</b>	Get everything you need before starting.



Step	Description
<b>Set Up</b>	Find a clean, safe place to do your experiment.
<b>Follow the Steps</b>	Do each step carefully and exactly as planned.
<b>Observe</b>	Watch what happens and take notes during the experiment.
<b>Record Results</b>	Write down what you find in your experiment.
<b>Try Again</b>	If something doesn't work, try again to fix it.
<b>Stay Safe</b>	Always follow safety rules when doing experiments.
<b>Ask for Help</b>	Ask someone for help if you need it during the experiment.

## Creating a Winning Presentation

Here are some of the best tips for creating a winning presentation:

Tip	Description
<b>Keep It Simple</b>	Focus on the main points with little text.
<b>Use Pictures</b>	Add pictures or charts to help explain your project.
<b>Practice</b>	Know your project well and practice talking about it.
<b>Organize</b>	Start with an introduction, then explain, and end with a conclusion.

Tip	Description
<b>Stay on Track</b>	Stick to the main points without straying.
<b>Use Bullet Points</b>	Make it easy to read with short, clear bullet points.
<b>Engage</b>	Ask questions or share fun facts to keep your audience interested.
<b>Make It Neat</b>	Use clear fonts and colors to make slides easy to read.
<b>Be Ready for Questions</b>	Think of possible questions and practice your answers.
<b>Stay Calm</b>	Speak slowly and clearly. You've got this!

## Last Minute Science Fair Projects for 7th grade

Here are some of the best last minute science fair projects for 7th grade:

### Dancing Raisins

#### Materials:

- Soda (clear soda works best)
- Raisins
- Clear glass

#### Steps:

- Fill a glass with soda.
- Drop a few raisins in the glass.
- Watch the raisins move up and down.

**Explanation:** Bubbles from the soda attach to the raisins and make them float up. When the bubbles pop, the raisins sink again.

## Balloon Rocket

### Materials:

- Balloon
- String
- Straw
- Tape

### Steps:

- Thread the string through the straw and tape it between two points.
- Inflate the balloon and tape it to the straw.
- Let go and watch the balloon move across the string.

**Explanation:** The air escaping from the balloon pushes it forward, showing how action and reaction work.

## Magnet Strength

### Materials:

- Different magnets
- Paper clips or small metal items

### Steps:

- Test different magnets to see which one can pick up the most paper clips or metal items.

**Explanation:** Bigger or stronger magnets can attract more items.

## Growing Crystals

### Materials:

- Salt or sugar
- Warm water
- Jar

- String

**Steps:**

- Dissolve salt or sugar in warm water.
- Tie the string to a pencil and place it across the top of the jar.
- Put the string in the jar and watch crystals form.

**Explanation:** As the water evaporates, crystals form on the string. This shows how solids can form from liquids.

## Water Filter

**Materials:**

- Plastic bottle
- Sand
- Gravel
- Cotton balls
- Dirty water

**Steps:**

- Layer cotton balls, sand, and gravel inside the bottle.
- Pour dirty water through the filter and see it come out cleaner.

**Explanation:** The sand and gravel trap dirt, letting clean water pass through.

## Paper Airplanes

**Materials:**

- Paper
- Measuring tape

**Steps:**

- Fold different paper airplanes.
- See which one flies the farthest.

**Explanation:** This shows how the design of the plane affects how far it can fly.

# Plant Growth

## Materials:

- Seeds (like beans)
- Soil
- Containers
- Water

## Steps:

- Plant seeds in different containers.
- Water and measure how each plant grows.

**Explanation:** This shows how light and water help plants grow.

# Lemon Battery

## Materials:

- Lemons
- Zinc nails
- Copper wire
- Small LED light or light bulb

## Steps:

- Insert the zinc nail and copper wire into the lemon.
- Connect the wires to the LED light or light bulb.

See also [75+ Innovative Windmill Project Ideas](#)

**Explanation:** The lemon makes electricity, turning on the light.

# Air Pressure

## Materials:

- Balloon

- Jar
- Hot water

### **Steps:**

- Pour hot water into the jar.
- Stretch the balloon over the jar's mouth.
- Watch the balloon shrink when the jar cools.

**Explanation:** As the air inside cools, it contracts, showing how temperature affects air pressure.

## **Volcano**

### **Materials:**

- Baking soda
- Vinegar
- Food coloring (optional)
- Small container

### **Steps:**

- Place baking soda in the container.
- Add food coloring if you want.
- Pour vinegar over the baking soda and watch it erupt.

**Explanation:** Baking soda and vinegar react to make carbon dioxide gas, causing the eruption.

## **Science Fair Ideas for 7th Grade Easy**

Here are some easy and fun science fair project ideas for 7th grade:

### **Floating Egg**

#### **Materials:**

- Water
- Egg

- Salt

**Steps:**

- Fill a glass with water.
- Add salt until it dissolves.
- Gently place an egg in the water and watch it float.

**Explanation:** Saltwater makes the egg float because it is denser than regular water.

## Color Mixing

**Materials:**

- Red, blue, and yellow food coloring
- Water
- Clear cups

**Steps:**

- Fill three cups with water.
- Add different food coloring to each cup.
- Mix the colors and see what new colors form.

**Explanation:** This shows how primary colors mix to create new ones.

## Balloon-Powered Car

**Materials:**

- Balloon
- Plastic bottle
- Straw
- Tape

**Steps:**

- Tape the balloon to the plastic bottle with the straw.
- Inflate the balloon and let it go to see the car move.

**Explanation:** The air from the balloon pushes the car forward.

# How Plants Absorb Water

## Materials:

- **White flowers** or celery stalks
- Water
- Food coloring
- Clear jars

## Steps:

- Fill the jars with colored water.
- Place the flowers or celery in the water.
- Watch the color travel up the stem.

**Explanation:** Plants absorb water through their stems.

# Magnetic Fields

## Materials:

- Magnet
- Paper
- Iron filings

## Steps:

- Place paper over the magnet.
- Sprinkle iron filings on the paper.
- Watch how the filings form lines around the magnet.

**Explanation:** This shows the invisible magnetic field around the magnet.

# Homemade Lava Lamp

## Materials:

- Vegetable oil
- Water
- Food coloring



- Alka-Seltzer tablet
- Clear container

**Steps:**

- Fill a container with oil and water.
- Add food coloring.
- Drop an Alka-Seltzer tablet and watch the bubbles form.

**Explanation:** The Alka-Seltzer makes bubbles, like in a lava lamp.

## The Power of Sunlight

**Materials:**

- Different materials (e.g., black paper, white paper, aluminum foil)
- Thermometer

**Steps:**

- Place materials under the sunlight.
- Measure the temperature after some time.

**Explanation:** Different materials absorb sunlight and heat up differently.

## Strength of Paper Bridges

**Materials:**

- Paper
- Scissors
- Books

**Steps:**

- Cut paper into strips and form a bridge.
- Place books on each side and add weight until it breaks.

**Explanation:** This shows how strong a paper bridge can be.

## How Sugar Affects Plants

**Materials:**

- Sugar
- Water
- Plants (e.g., beans or flowers)
- Pots

**Steps:**

- Water one plant with sugar water and the other with regular water.
- Watch which plant grows better.

**Explanation:** This tests if sugar affects plant growth.

## Ice Cream in a Bag

**Materials:**

- Milk
- Sugar
- Vanilla extract
- Ice
- Salt
- Plastic bags

**Steps:**

- Mix milk, sugar, and vanilla in a small bag.
- Fill a bigger bag with ice and salt.
- Place the small bag in the big one and shake for several minutes.

**Explanation:** The ice and salt freeze the milk mixture into ice cream.

## 7th Grade Science Fair Project Ideas High School

Here are some 7th grade science fair project ideas that also work for high school students:

### Effect of Temperature on Plant Growth

**Materials:**

- Plants
- Pots
- Water
- Thermometer

**Steps:**

- Grow plants in different temperatures.
- Measure how much they grow.

**Explanation:** This shows how temperature affects plant growth.

## How Does Music Affect Memory?

**Materials:**

- People to test
- Music player
- Word list

**Steps:**

- Play music while studying the list.
- Test how much people remember.

**Explanation:** This tests how music helps or hurts memory.

## Solar Power Efficiency Comparison

**Materials:**

- Solar panels
- Light source (lamp)
- Multimeter

**Steps:**

- Test solar panels under different lights.
- Measure how much energy they produce.

**Explanation:** This shows how light affects solar panel performance.

## Acidity of Different Drinks

### Materials:

- pH strips
- Different drinks (e.g., soda, juice, water)
- Cups

### Steps:

- Test the pH of each drink.
- Record the results.

**Explanation:** This shows how acidic different drinks are.

## How Does Color Affect Heat Absorption?

### Materials:

- Colored papers (black, white, red)
- Thermometer
- Light source

### Steps:

- Place papers under a light.
- Measure the temperature after a while.

**Explanation:** This shows how color affects heat absorption.

## The Effect of Different Types of Music on Heart Rate

### Materials:

- Music player
- Heart rate monitor
- Participants

### Steps:

- Play different music for participants.
- Measure their heart rate before and after.

**Explanation:** This shows how music affects heart rate.

## The Science of Soap: How Different Soaps Clean

### Materials:

- Different soaps
- Dirty surfaces (e.g., grease, dirt)
- Water

### Steps:

- Test how each soap cleans the same surface.
- See which one works best.

**Explanation:** This shows how different soaps clean dirt.

## The Effect of Light on Plant Photosynthesis

### Materials:

- Plants
- Light source
- Timer

### Steps:

- Place plants in different light conditions.
- Measure their growth.

**Explanation:** This shows how light helps plants grow.

## Does the Shape of an Object Affect Its Falling Speed?

### Materials:

- Different shaped objects

- Stopwatch

**Steps:**

- Drop each object from the same height.
- Measure how long it takes to fall.

**Explanation:** This shows how shape affects falling speed.

## How Does Humidity Affect the Rate of Evaporation?

**Materials:**

- Water
- Thermometer
- Containers

**Steps:**

- Place water in containers with different humidity levels.
- Measure how fast it evaporates.

**Explanation:** This shows how humidity affects evaporation.

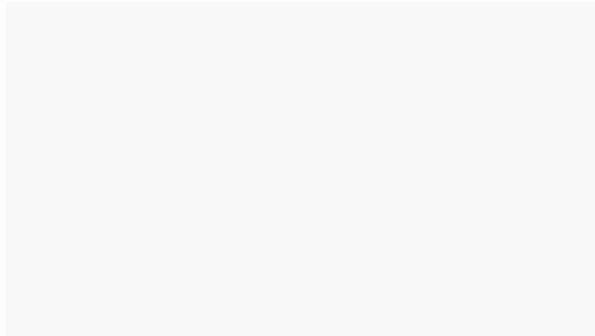
## Conclusion

In conclusion, choosing a fun science fair project is a great way to learn and explore new things. Pick something that interests you, whether it's plants, reactions, or physics. Make sure it's simple enough to manage and fun to test.

Once you have your idea, plan your experiment and write down your results. This will help you explain what you learned clearly.

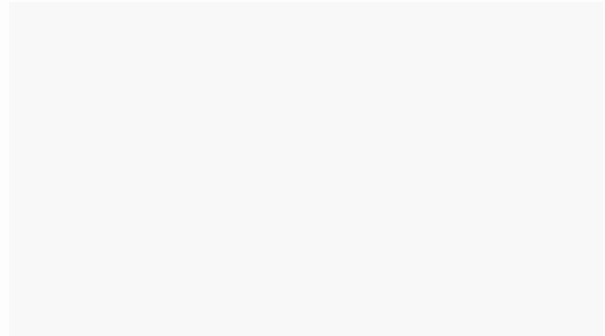
Have fun with your project, and remember that science is all about trying new things. Good luck with your 7th grade science fair!

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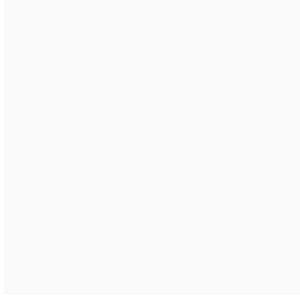
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