



## 111+ Innovative Cell Project Ideas 7th Grade

[Leave a Comment / General](#)



Get easy and fun cell project ideas for 7th grade! Learn about cells with hands-on activities. Perfect for school or just for fun!

Dive into the exciting world of plant and animal cells with hands-on activities and easy models. These projects are perfect for school or just for fun!

Are you ready to explore cells? Cells are the tiny building blocks of all living things, and they're super interesting! This guide has fun project ideas for 7th graders to help you see how cells work. You can make cool models of plant and animal cells using simple materials or create colorful posters to show the different parts of a cell.

These projects will teach you important biology concepts, like how cells divide and help living things grow. Let's jump into the world of cells and have a blast while we learn!

### Table of Contents



1. What are Cells?
2. Cell Project Ideas 7th Grade
3. What are cells made of 7th grade?
4. How to do a project of a plant cell?
5. Animal Cell Project Ideas 7th Grade
6. Cell Project Ideas 7th Grade Biology
7. Plant Cell Project Ideas 7th Grade
8. Conclusion

## What are Cells?

Cells are tiny parts of all living things.

Everything, like germs, trees, and animals, is made of cells.

They are different shapes and sizes, and each has a special job.

Learning about cells helps us understand living things.

## Difference Between Plant and Animal Cells

Plant and animal cells are similar but not the same.

Plant cells have:

- A hard outer wall
- Parts to make food from sunlight
- Big spaces to store stuff
- Animal cells do not have these parts.

Knowing these differences helps us learn about life!

## Cell Project Ideas 7th Grade

Here are some of the best cell project ideas 7th grade:

# Model Projects

## 3D Cell Model

**Materials:** Styrofoam balls, clay, paint, labels.

**Steps:**

- Use different sizes of balls to represent cell parts.
- Cover them with clay for detail.
- Paint and label each part.
- Present to the class.

## Edible Cell Model

**Materials:** Gelatin, gummy candies, fruit, icing.

**Steps:**

- Make gelatin and let it set in a container.
- Use candies to represent organelles.
- Label each candy with icing.
- Share your edible model with classmates.

## Cell Flip Book

**Materials:** Index cards, markers, binding clips.

**Steps:**

- Draw different cell parts on index cards.
- Write functions next to each drawing.
- Bind the cards together.
- Flip through and present to classmates.

## Digital Cell Model

**Materials:** Computer, presentation software.

**Steps:**

- Create a digital presentation of a cell.

- Include images and descriptions of organelles.
- Present your model to the class.
- Discuss what each part does.

## **Recycled Materials Cell Model**

**Materials:** Recyclable items (bottles, caps, boxes), glue.

### **Steps:**

- Use recycled materials to build a cell model.
- Label each part with paper.
- Explain your model to the class.
- Display your creation in class.

## **Plant vs. Animal Cell Model**

**Materials:** Craft supplies (paper, scissors, glue).

### **Steps:**

- Create one model for a plant cell and another for an animal cell.
- Label the differences between the two.
- Present your models to classmates.
- Discuss the functions of each cell type.

## **Cell Organelles 3D Printing**

**Materials:** 3D printer (if available), design software.

### **Steps:**

- Design organelles using software.
- Print the organelles using a 3D printer.
- Assemble them into a model.
- Present your model and explain each part.

## **Giant Cell Poster**

**Materials:** Large poster board, markers, colored paper.

### **Steps:**

- Draw a large cell on poster board.
- Use colored paper for organelles.
- Label each part clearly.
- Display it in class and explain.

## **Cell Anatomy Puzzle**

**Materials:** Cardboard, scissors, markers.

### **Steps:**

- Cut out shapes for each cell part from cardboard.
- Create a puzzle by mixing up the pieces.
- Have classmates assemble the puzzle.
- Discuss what each part represents.

## **Cell Shadow Box**

**Materials:** Shoe box, craft materials, labels.

### **Steps:**

- Create a shadow box showing a cell.
- Use different materials for organelles.
- Label everything clearly.
- Present your shadow box to the class.

## **Experiments**

### **Osmosis Experiment**

**Materials:** Potato, salt, water, knife.

### **Steps:**

- Cut a potato into two pieces.
- Soak one piece in saltwater and the other in plain water.
- Observe and compare changes after a few hours.
- Discuss osmosis with the class.

## Plant Growth Experiment

**Materials:** Seeds, soil, pots, water.

**Steps:**

- Plant seeds in different conditions (light, dark).
- Water them regularly.
- Observe growth over weeks.
- Share results with classmates.

## Cell Membrane Experiment

**Materials:** Eggs, vinegar, water.

**Steps:**

- Soak an egg in vinegar for 24 hours.
- Rinse and soak it in water.
- Observe changes in size and texture.
- Discuss the egg's membrane and osmosis.

## Yeast Fermentation Experiment

**Materials:** Yeast, sugar, warm water, balloon.

**Steps:**

- Mix yeast, sugar, and warm water in a bottle.
- Place a balloon over the opening.
- Observe the balloon inflate as yeast ferments.
- Explain the fermentation process to the class.

## Cell Respiration Experiment

**Materials:** Seeds, water, thermometer.

**Steps:**

- Place seeds in warm water for a few days.
- Measure temperature changes.
- Discuss how cells respire and produce heat.

- Present your findings to classmates.

## Photosynthesis Experiment

**Materials:** Aquatic plant (like Elodea), water, light source.

### Steps:

- Place the plant in water and provide light.
- Observe bubbles forming.
- Discuss how plants make food through photosynthesis.
- Share observations with the class.

## Microscopy Experiment

**Materials:** Microscope, onion skin, slide.

### Steps:

- Prepare a slide with onion skin.
- Observe the cells under the microscope.
- Draw what you see and label parts.
- Present your findings to the class.

## Diffusion Experiment

**Materials:** Food coloring, water, clear cup.

### Steps:

- Add food coloring to water.
- Observe how it spreads.
- Discuss diffusion and its importance in cells.
- Share your observations with classmates.

## Enzyme Activity Experiment

**Materials:** Pineapple juice, gelatin, warm water.

### Steps:

- Mix pineapple juice with gelatin.

- Observe what happens when kept warm.
- Discuss enzymes and their role in cells.
- Present results to the class.

## **pH and Plant Growth Experiment**

**Materials:** Soil, pH test kit, seeds.

### **Steps:**

- Test the soil pH for different areas.
- Plant seeds in various pH soils.
- Observe and record growth over time.
- Discuss how pH affects plant cells.

## **Field Projects**

### **Nature Walk**

**Materials:** Notebook, pencil, camera.

### **Steps:**

- Take a walk in nature.
- Observe and document different plants and animals.
- Discuss how cells help them survive.
- Share your observations with the class.

### **School Garden**

**Materials:** Seeds, soil, garden tools.

### **Steps:**

- Start a small garden at school.
- Plant different seeds and care for them.
- Observe plant growth and cell changes.
- Present the garden project to classmates.

### **Visit a Local Farm**



**Materials:** Permission slip, notebook.

**Steps:**

- Organize a field trip to a local farm.
- Observe crops and animal cells.
- Take notes on farming techniques.
- Share what you learned with the class.

## Local Park Study

**Materials:** Notebook, camera, binoculars.

**Steps:**

- Visit a local park and observe wildlife.
- Take notes on animal habitats and behaviors.
- Discuss how cells adapt to their environment.
- Present findings to classmates.

## Beach Cleanup

**Materials:** Trash bags, gloves.

**Steps:**

- Organize a beach cleanup event.
- Discuss the impact of pollution on cells.
- Collect trash and recycle materials.
- Reflect on the importance of a clean environment.

## Community Garden

**Materials:** Gardening tools, seeds.

**Steps:**

- Volunteer at a community garden.
- Help plant and care for vegetables.
- Observe how plants grow and change.
- Share your experiences with the class.

## Nature Photography

**Materials:** Camera, notebook.

**Steps:**

- Take photos of different plants and animals.
- Document their habitats and behaviors.
- Discuss how cells function in nature.
- Present your photography project in class.

See also [119+ reMarkable Biology Project Ideas](#)

## Visit a Botanical Garden

**Materials:** Permission slip, notebook.

**Steps:**

- Take a field trip to a botanical garden.
- Observe different plant species and their cells.
- Take notes on plant adaptations.
- Present your findings to classmates.

## Wildlife Sanctuary

**Materials:** Permission slip, notebook.

**Steps:**

- Visit a wildlife sanctuary to learn about animals.
- Observe how different cells help animals survive.
- Take notes and share insights with the class.
- Discuss conservation efforts and their importance.

## Explore Ecosystems

**Materials:** Notebook, camera.

**Steps:**

- Choose a local ecosystem (forest, wetland).
- Observe plants and animals in that habitat.
- Document how cells support life in that ecosystem.
- Present your ecosystem project to the class.

## Creative Projects

### Cell Song or Rap

**Materials:** Paper, musical instruments (optional).

**Steps:**

- Write a song or rap about cell parts and their functions.
- Create a catchy tune.
- Perform it for the class.
- Discuss the main points in your lyrics.

### Cell Skit

**Materials:** Props, costumes (optional).

**Steps:**

- Write a short skit about cells and their functions.
- Perform it with friends.
- Use props to represent different cell parts.
- Explain the concepts presented in your skit.

### Cell Art Project

**Materials:** Canvas, paint, brushes.

**Steps:**

- Create a piece of art representing a cell.
- Use colors to show different organelles.
- Label each part of your artwork.
- Present your art to the class.

### Cell Poetry

**Materials:** Paper, pencil, colored markers.

**Steps:**

- Write a poem about cells and their importance.
- Use creative language and metaphors.
- Illustrate your poem with drawings.
- Share your poem with the class.

## Cell Story

**Materials:** Paper, markers, colored pencils.

**Steps:**

- Write a short story about a cell's life.
- Include different cell parts and their roles.
- Illustrate your story.
- Share it with your classmates.

## Cell Fashion Show

**Materials:** Clothes, props, camera.

**Steps:**

- Create outfits representing different cell parts.
- Organize a fashion show to showcase your designs.
- Explain the functions of each part while modeling.
- Take photos and present them in class.

## Cell Comic Strip

**Materials:** Paper, markers, colored pencils.

**Steps:**

- Create a comic strip about cell functions.
- Use characters to represent organelles.
- Share your comic with the class.
- Discuss the concepts presented.

## Cell Bulletin Board

**Materials:** Poster board, markers, printed images.

**Steps:**

- Create a bulletin board about cells.
- Include information, images, and labels.
- Display it in the classroom.
- Explain the contents to your classmates.

## Cell Game

**Materials:** Cardboard, markers, game pieces.

**Steps:**

- Design a board game based on cell functions.
- Create rules and challenges related to cells.
- Play the game with classmates.
- Discuss what you learned while playing.

## Cell Video

**Materials:** Camera, computer, video editing software.

**Steps:**

- Create a video explaining cell parts and functions.
- Use visuals and clear explanations.
- Share your video with the class.
- Discuss the main points covered in the video.

## Presentation Projects

### PowerPoint Presentation

**Materials:** Computer, PowerPoint software.

**Steps:**

- Create a PowerPoint about cell types and functions.

- Include images and bullet points.
- Present your slides to the class.
- Answer questions from classmates.

## Poster Presentation

**Materials:** Poster board, markers, printed images.

### Steps:

- Create a poster about a specific cell type.
- Include facts and visuals.
- Present your poster to the class.
- Discuss the importance of that cell type.

## Infographic

**Materials:** Computer, infographic software or paper.

### Steps:

- Design an infographic showing cell parts and functions.
- Use visuals and short descriptions.
- Share your infographic with classmates.
- Discuss what you learned while creating it.

## Oral Presentation

**Materials:** Notes, visuals (if needed).

### Steps:

- Prepare a short speech about cells.
- Use visuals to support your points.
- Present to the class.
- Answer questions from classmates.

## Scientific Poster

**Materials:** Poster board, markers, printed data.

### **Steps:**

- Create a scientific poster about cell research.
- Include data, charts, and graphs.
- Present it to the class.
- Explain the significance of your research.

## **Panel Discussion**

**Materials:** Group of classmates, notes.

### **Steps:**

- Organize a panel to discuss different aspects of cells.
- Prepare questions and answers.
- Present to the class as a group.
- Encourage classmates to ask questions.

## **Demonstration**

**Materials:** Cell model or visuals, props.

### **Steps:**

- Prepare a demonstration of a cell process.
- Use a model or props to illustrate your points.
- Present it to the class.
- Discuss what you demonstrated.

## **Video Presentation**

**Materials:** Camera, video editing software.

### **Steps:**

- Create a video explaining a cell topic.
- Use visuals and clear narration.
- Show the video to the class.
- Discuss the content afterward.

## **Q&A Session**

**Materials:** Notes, visuals (if needed).

**Steps:**

- Prepare for a Q&A about cells.
- Invite classmates to ask questions.
- Provide clear answers based on your knowledge.
- Encourage discussion on the topic.

## Group Project Presentation

**Materials:** Group work materials, visuals.

**Steps:**

- Work with classmates on a cell-related project.
- Prepare a presentation together.
- Present as a group to the class.
- Discuss the contributions of each member.

## Research Projects

### Cell Theory Research

**Materials:** Books, internet access, paper.

**Steps:**

- Research the history of cell theory.
- Write a report summarizing your findings.
- Include key scientists and their contributions.
- Present your research to the class.

### Cell Types Research

**Materials:** Internet access, paper, markers.

**Steps:**

- Research different types of cells (plant, animal, bacteria).
- Create a chart comparing their features.



- Present your findings to the class.
- Discuss the importance of each cell type.

## **Disease Research**

**Materials:** Books, internet access, paper.

**Steps:**

- Research a disease related to cells (e.g., cancer).
- Write a report on how it affects cells.
- Discuss prevention and treatment options.
- Present your findings to the class.

## **Stem Cell Research**

**Materials:** Internet access, paper, markers.

**Steps:**

- Research stem cells and their functions.
- Write a summary of your findings.
- Include ethical considerations.
- Share your research with the class.

## **Microscopy Research**

**Materials:** Internet access, books, paper.

**Steps:**

- Research the history of microscopy.
- Write a report on how it helps study cells.
- Discuss different types of microscopes.
- Present your research to classmates.

## **Cell Organelles Research**

**Materials:** Internet access, paper, markers.

**Steps:**

- Research the functions of different organelles.
- Create a visual presentation of your findings.
- Discuss each organelle's role in the cell.
- Present to the class.

## **Photosynthesis Research**

**Materials:** Internet access, books, paper.

**Steps:**

- Research how photosynthesis works in plant cells.
- Write a report summarizing your findings.
- Include its importance for life on Earth.
- Present your research to the class.

## **Cell Communication Research**

**Materials:** Internet access, paper, markers.

**Steps:**

- Research how cells communicate with each other.
- Write a report on different communication methods.
- Share your findings with the class.
- Discuss its significance in biology.

## **Cell Transport Research**

**Materials:** Internet access, paper, markers.

**Steps:**

- Research how substances move in and out of cells.
- Create a visual presentation of your findings.
- Discuss passive and active transport.
- Present to the class.

## **Genetic Research**

**Materials:** Internet access, paper, markers.

**Steps:**

- Research genetics and how it relates to cells.
- Write a report on key concepts.
- Discuss genetic diseases and treatments.
- Present your research to the class.

## Interactive Projects

### Cell Model Creation

**Materials:** Clay, beads, cardboard.

**Steps:**

- Create a 3D model of a cell using clay and other materials.
- Label all the cell parts.
- Present your model to the class.
- Explain the functions of each part.

### Cell Simulation Game

**Materials:** Computer, simulation software.

**Steps:**

- Use a simulation program to explore cell processes.
- Document your observations.
- Present your findings to the class.
- Discuss what you learned from the simulation.

### Cell Lab Experiment

**Materials:** Lab supplies (microscope, slides).

**Steps:**

- Conduct an experiment to observe cells under a microscope.
- Record your observations.
- Present your results to the class.
- Discuss the significance of your findings.

See also [101 Awesome STEAM Fair Project Ideas](#)

## Cell Walk

**Materials:** Outdoor space, worksheets.

**Steps:**

- Go for a walk to observe cell-like structures in nature.
- Take notes on what you find.
- Discuss your observations in class.
- Connect your findings to cell biology.

## Cell Experimentation

**Materials:** Basic lab supplies.

**Steps:**

- Plan an experiment to test cell functions.
- Document your process and results.
- Share your experiment with the class.
- Discuss what you learned.

## Interactive Cell Game

**Materials:** Board game materials.

**Steps:**

- Create a board game focusing on cell functions.
- Include trivia questions and challenges.
- Play the game with classmates.
- Discuss what you learned during the game.

## Virtual Field Trip

**Materials:** Internet access, computer.

**Steps:**

- Take a virtual tour of a lab or research facility.
- Take notes on interesting findings.
- Share your experience with the class.
- Discuss what you learned from the trip.

## Cell Quiz Game

**Materials:** Quiz materials (paper, markers).

**Steps:**

- Create a quiz game about cell functions.
- Include different types of questions.
- Play the game with your classmates.
- Review answers and discuss.

## Group Discussion

**Materials:** Group of classmates, notes.

**Steps:**

- Organize a discussion about cells.
- Prepare questions to guide the conversation.
- Encourage everyone to participate.
- Summarize key points at the end.

## Cell Learning Stations

**Materials:** Stations set up with different cell activities.

**Steps:**

- Create learning stations around the classroom.
- Each station focuses on a different aspect of cells.
- Rotate through each station and complete activities.
- Discuss what you learned at each station.

## Field Trip Projects

### Museum Visit

**Materials:** Permission slip, notebook.

**Steps:**

- Visit a science museum with a biology exhibit.
- Observe cell-related displays.
- Take notes on interesting facts.
- Share your findings with the class.

## Laboratory Visit

**Materials:** Permission slip, notebook.

**Steps:**

- Visit a local laboratory.
- Observe scientists working with cells.
- Take notes on their methods and tools.
- Discuss your experience with classmates.

## Botanical Garden Visit

**Materials:** Permission slip, notebook.

**Steps:**

- Visit a botanical garden to study plant cells.
- Observe different plant species.
- Take notes on adaptations.
- Present your observations to the class.

## Farm Visit

**Materials:** Permission slip, notebook.

**Steps:**

- Visit a farm to learn about cells in agriculture.
- Observe plant and animal cells in action.
- Take notes on farming practices.
- Discuss your insights with the class.

## Nature Center Visit

**Materials:** Permission slip, notebook.

**Steps:**

- Visit a nature center to explore ecosystems.
- Observe cells in different organisms.
- Take notes on how cells support life.
- Share your findings with classmates.

## Aquarium Visit

**Materials:** Permission slip, notebook.

**Steps:**

- Visit an aquarium to learn about aquatic cells.
- Observe marine life and their adaptations.
- Take notes on cell functions in aquatic environments.
- Discuss your observations with the class.

## Zoo Visit

**Materials:** Permission slip, notebook.

**Steps:**

- Visit a zoo to study animal cells.
- Observe various animals and their habitats.
- Take notes on how cells help animals survive.
- Present your findings to classmates.

## Community Garden Visit

**Materials:** Permission slip, notebook.

**Steps:**

- Visit a community garden to learn about plant cells.
- Observe different plants and their structures.
- Take notes on gardening techniques.

- Share your insights with the class.

## Recycling Center Visit

**Materials:** Permission slip, notebook.

**Steps:**

- Visit a recycling center to learn about cell materials.
- Observe how materials are processed.
- Take notes on the importance of recycling for cells.
- Discuss your experience with classmates.

## Environmental Center Visit

**Materials:** Permission slip, notebook.

**Steps:**

- Visit an environmental center to learn about cell ecosystems.
- Observe local wildlife and their habitats.
- Take notes on how cells interact in the ecosystem.
- Present your findings to the class.

## Digital Projects

### Create a Blog

**Materials:** Computer, internet access.

**Steps:**

- Start a blog about cells and their functions.
- Write engaging posts with visuals.
- Share your blog with classmates.
- Encourage feedback and discussions.

### Digital Presentation

**Materials:** Computer, presentation software.



### **Steps:**

- Create a digital presentation about cell biology.
- Use visuals and clear explanations.
- Present it to the class.
- Discuss key points with classmates.

## **Online Quiz**

**Materials:** Computer, quiz platform.

### **Steps:**

- Create an online quiz about cell functions.
- Include multiple-choice questions.
- Share it with your classmates.
- Discuss the answers in class.

## **Social Media Campaign**

**Materials:** Computer, social media account (optional).

### **Steps:**

- Create a social media campaign about cells.
- Share facts, images, and videos.
- Engage your classmates in discussions.
- Encourage them to share your posts.

## **Digital Infographic**

**Materials:** Computer, infographic software.

### **Steps:**

- Design a digital infographic about cell parts.
- Use visuals and clear descriptions.
- Share your infographic online.
- Discuss its content with classmates.

## **Virtual Reality Experience**

**Materials:** VR headset, VR software (if available).

**Steps:**

- Create a virtual reality experience about cells.
- Explore cell structures and functions.
- Share your experience with classmates.
- Discuss what you learned during the experience.

## Podcast Series

**Materials:** Recording equipment, editing software.

**Steps:**

- Create a podcast series discussing cell biology.
- Invite classmates to join as guests.
- Share your episodes online.
- Discuss the topics in class.

## Online Forum Discussion

**Materials:** Internet access, online forum.

**Steps:**

- Join an online forum focused on biology.
- Participate in discussions about cells.
- Share your insights and ask questions.
- Summarize key discussions for the class.

## E-book Creation

**Materials:** Computer, e-book software.

**Steps:**

- Create an e-book about cell functions.
- Include images, charts, and clear explanations.
- Share your e-book with classmates.
- Discuss its content in class.

## Digital Artwork

**Materials:** Computer, digital art software.

**Steps:**

- Create digital art representing cells.
- Use visuals to explain cell structures.
- Share your artwork online.
- Discuss your creative process with classmates.

## Creative Projects

### Cell Song or Poem

**Materials:** Paper, musical instruments (optional).

**Steps:**

- Write a song or poem about cells.
- Share your creation with the class.
- Explain the science behind your lyrics.
- Encourage classmates to join in.

### Cell Comic Strip

**Materials:** Paper, markers.

**Steps:**

- Create a comic strip that explains cell functions.
- Use humor and visuals to engage readers.
- Share your comic with the class.
- Discuss the concepts depicted in your comic.

### Cell Storytelling

**Materials:** Props, visual aids.

**Steps:**

- Prepare a storytelling session about cells.

- Use props to enhance your narrative.
- Share your story with the class.
- Discuss the scientific concepts within your story.

## Cell Drama Skit

**Materials:** Costumes, props.

**Steps:**

- Create a skit that represents cell processes.
- Assign roles and rehearse.
- Perform your skit for the class.
- Explain the science behind the skit afterward.

## Cell Art Installation

**Materials:** Various art supplies.

**Steps:**

- Create an art installation representing cells.
- Use mixed media to showcase cell structures.
- Present your installation to the class.
- Discuss the artistic and scientific elements.

## Cell Fashion Show

**Materials:** Clothing materials, props.

**Steps:**

- Design outfits inspired by cell structures.
- Organize a fashion show to display creations.
- Explain the cell inspiration behind each outfit.
- Engage classmates in discussions about the designs.

## Cell Dance

**Materials:** Music, space for dancing.

**Steps:**

- Choreograph a dance that represents cell functions.
- Perform the dance for the class.
- Discuss how movements relate to cell activities.
- Encourage classmates to join in.

## Cell Photography Project

**Materials:** Camera or smartphone.

**Steps:**

- Take photos of objects that resemble cell structures.
- Create a photo album and share it with the class.
- Discuss the connections between the photos and cells.
- Encourage classmates to capture similar images.

## Cell-Themed Cookbook

**Materials:** Recipe ingredients, cooking supplies.

**Steps:**

- Create a cookbook with recipes inspired by cells.
- Each recipe should represent a cell part.
- Share your cookbook with classmates.
- Discuss the connections between food and cell biology.

## Cell Garden

**Materials:** Plant seeds, soil, pots.

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

**Steps:**

- Start a small garden representing different cell types.
- Label each plant with its cell-related name.
- Share the garden with the class.

- Discuss how plants relate to cell biology.

## What are cells made of 7th grade?

Cells are the building blocks of all living things, and they are made up of several key components:

### Cell Membrane

- Thin layer that surrounds the cell.
- Controls what enters and exits the cell.

### Cytoplasm

- Jelly-like substance inside the cell.
- Contains organelles and helps with cell functions.

### Nucleus

- Control center of the cell.
- Contains **DNA**, which holds genetic information.

### Organelles

- Specialized structures within the cell that perform different functions.

### Examples include

- **Mitochondria:** Produce energy.
- **Ribosomes:** Make proteins.
- **Endoplasmic Reticulum:** Helps transport materials.
- **Golgi Apparatus:** Modifies and packages proteins.
- **Lysosomes:** Break down waste.

### Cytoskeleton

- Network of fibers that give the cell its shape and support.

# Vacuoles

- Storage sacs for nutrients, waste, or water.
- Larger in plant cells.

# Cell Wall (only in plant cells)

- Rigid outer layer that provides support and protection.

These components work together to keep the cell alive and functioning!

# How to do a project of a plant cell?

Here are the steps to do project of a plant cell:

## What You Need

- A big foam ball or a piece of cardboard for the cell
- Paint or markers
- Scissors
- Glue
- Small labels or paper for names
- Optional: Clear plastic wrap for the cell membrane

## Steps to Make Your Plant Cell Model

### 1. Make the Cell:

- Use a big foam ball or cut cardboard into a circle to represent the cell.

### 2. Add the Cell Wall:

- Paint the foam ball green or leave it as is to show the cell wall.

### 3. Create Organelles:

- Use smaller foam balls or other items for different parts:
  - **Nucleus:** A medium foam ball (paint it purple).
  - **Chloroplasts:** Small green balls.
  - **Mitochondria:** Oval pieces (from cardboard) painted brown.
  - **Vacuoles:** Small balloons or plastic bags with water.
  - **Ribosomes:** Small beads or dots (paint them white).

### 4. Arrange Organelles:

- Put the organelles inside your cell model and glue them if needed.

#### 5. **Label Everything:**

- Write the names of each part on small pieces of paper and stick them next to the right organelle.

#### 6. **Optional – Show the Inside:**

- If you want, cut the foam ball in half to show the inside of the cell.

#### 7. **Present Your Project:**

- Get ready to explain each part and what it does. You can use a poster to help.

## Tips

- **Learn About Each Part:** Know what each organelle does.
- **Use Bright Colors:** Make your model fun and colorful.
- **Practice Talking About It:** Go over your presentation so you feel ready.

# Animal Cell Project Ideas 7th Grade

Here are some of the best animal cell project ideas 7th grade:

## 3D Model of an Animal Cell

**What You Need:** Foam balls or clay.

### How to Do It:

- Use a big foam ball for the cell and smaller balls for organelles.
- Paint each part (like the nucleus or mitochondria).
- Label each part and say what it does.

## Animal Cell Diagram

**What You Need:** Poster board and markers.

### How to Do It:

- Draw a big picture of an animal cell.
- Label the parts and write a short note about what each part does.
- Use colors to make it bright and fun.



## Animal Cell Mobile

**What You Need:** String and paper.

**How to Do It:**

- Cut out shapes for each organelle from colored paper.
- Hang them from strings to create a mobile.
- Label each part and explain its job.

## Animal Cell Comparison Chart

**What You Need:** Poster board and markers.

**How to Do It:**

- Make a chart comparing animal cells and plant cells.
- List what's different and what's the same.
- Include pictures and short descriptions.

## Interactive PowerPoint Presentation

**What You Need:** A computer or tablet.

**How to Do It:**

- Make slides for each organelle.
- Include pictures and simple facts.
- Present it to your class.

## Animal Cell Cake

**What You Need:** Cake mix and candies.

**How to Do It:**

- Bake a round cake to look like a cell.
- Use frosting and candies to decorate it.
- Explain each part while presenting it.

# Animal Cell Video

**What You Need:** A smartphone or camera.

**How to Do It:**

- Make a short video talking about the animal cell.
- Use drawings or props to show the parts.
- Share it with your class.

# Cell Project Ideas 7th Grade Biology

Here are super simple cell project ideas for 7th grade:

## Cell Model

**What You Need:** Foam balls or cardboard.

**How to Do It:**

- Make a 3D model of a cell.
- Use different colors for each part.
- Label each part.

## Cell Diagram Poster

**What You Need:** Poster board and markers.

**How to Do It:**

- Draw a big cell.
- Label the parts and what they do.
- Use bright colors.

## Cell Book

**What You Need:** Paper and markers.

**How to Do It:**

- Make a small book about cell parts.
- Draw and write what each part does.

## Comparison Chart

**What You Need:** Poster board or computer.

**How to Do It:**

- Create a chart of plant and animal cells.
- List similarities and differences.

## Water Experiment

**What You Need:** A clear container and water.

**How to Do It:**

- Fill a container with water and add food coloring.
- Show how the color spreads to explain cell membranes.

## Edible Cell

**What You Need:** Food like jelly or candy.

**How to Do It:**

- Make a cell using food (like jelly for the inside).
- Use candy for different parts.

## Cell Video

**What You Need:** A smartphone or camera.

**How to Do It:**

- Make a video about cell parts.
- Show pictures or models.

# Plant Cell Project Ideas 7th Grade

Here are super simple plant cell project ideas for 7th grade:

## Plant Cell Model

**What You Need:** Foam balls or cardboard.

**How to Do It:**

- Make a 3D model of a plant cell.
- Use different colors for each part.
- Label each part and say what it does.

## Plant Cell Poster

**What You Need:** Poster board and markers.

**How to Do It:**

- Draw a big picture of a plant cell.
- Label the parts like the cell wall and chloroplasts.
- Write what each part does.

## Plant Cell Book

**What You Need:** Paper and markers.

**How to Do It:**

- Create a small book about plant cell parts.
- Draw pictures and write what each part does.

## Comparison Chart

**What You Need:** Paper or poster board.

**How to Do It:**

- Make a chart comparing plant cells and animal cells.
- List what is the same and what is different.

## Edible Plant Cell Model

**What You Need:** Food like jelly and candy.

**How to Do It:**

- Build a plant cell using food (like jelly for the inside).
- Use candy for different parts.
- Explain what each part is.

## Plant Cell Video

**What You Need:** A smartphone.

**How to Do It:**

- Make a video about plant cell parts.
- Show pictures or models as you talk.

## Memory Game

**What You Need:** Index cards.

**How to Do It:**

- Make cards with pictures of cell parts and their names.
- Play a memory game to match the parts.

## Conclusion

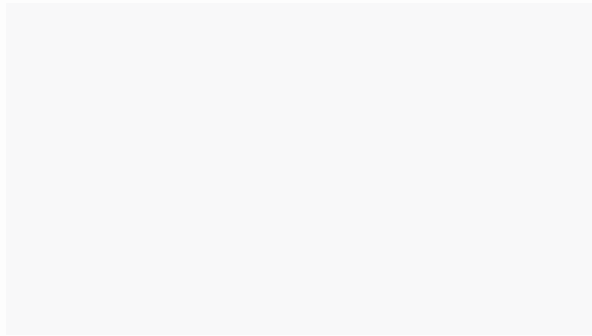
In conclusion, these cell project ideas are fun ways for 7th graders to learn about cells. You can make a model, draw a poster, or create a video to see how plant and animal cells work.

These projects let you be creative and share what you've learned. Whether you compare cells, make a tasty model, or play a memory game, you'll discover how cells function.

Choose a project you enjoy and have fun! Learning about cells is important because they are the building blocks of life. Enjoy your projects and happy learning!

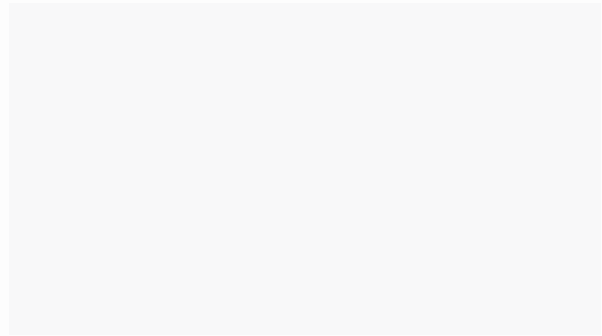
[← Previous Post](#)

## Related Posts



**129+ Innovative MSC  
Mathematics Project Ideas for  
Students**

[Leave a Comment / General / By Adam Tesla](#)



**50 Most Innovative SUPW  
Project Ideas to Test Your Skills**

[Leave a Comment / General / By Adam Tesla](#)

## Leave a Comment

Your email address will not be published. Required fields are marked \*

Type here..

Save my name, email, and website in this browser for the next time I comment.

[Post Comment »](#)

## Recent Posts

111+ Innovative Cell Project Ideas 7th Grade

114+ Captivating Egg Drop Project Ideas Without Breaking

201+ Creative Hide A Turkey Project Ideas For Students

111+ Creative Mitosis Project Ideas For Students In 2025

175+ Fun Pumpkin Carving Ideas

## Categories

[Computer Science](#)

[General](#)

[Humanities](#)

[Mini](#)

## Subscribe to Our Newsletter

Subscribe us for latest project ideas on all subjects into your email.

Email address

Subscribe

## Top Pages

Privacy Policy  
Disclaimer  
Terms And Conditions

## Top Categories

Computer Science  
General  
Humanities  
Mini

## Follow us on

