

Kindergarten – 2nd Grade Project Ideas

Project Division	Project Idea	Overview	Possible Materials
Maker Division - Model	How Does a Volcano Work?	Create a 3D model of a volcano to show how magma moves and eruptions occur. Include labels for each part.	Clay, baking soda, vinegar, paint, cardboard
Maker Division – Model	Parts of a Plant	Build a model showing the roots, stem, leaves, and flower of a plant. Include how water travels through the plant.	Recycled bottles, straws, pipe cleaners, construction paper, labels
Maker Division – Model	Dash the Delivery Robot	Use Dash to model how robots can deliver packages or mail. Program routes, create a delivery map, and explain how the robot uses coding to navigate.	Dash robot, cardboard boxes, masking tape for routes, markers, trifold board
Maker Division – Model	Sun and Shadows	Build a simple model showing how the Sun creates shadows that change throughout the day.	Flashlight, clay figures, cardboard base, paper sun, labels
Maker Division – Model	Habitat Helpers	Students create a model of an animal habitat showing how living and nonliving things interact. They explain how animals find food, water, and shelter.	Shoe box, clay, construction paper, toy animals, natural materials like leaves or sticks, labels
Maker Division – Model	Weather-Proof House	Students design and build a model home that withstands wind or rain	Cardboard, clay, tape, fan, spray bottle
Maker Division – Engineering/Invention	Pet Feeder 2000	Design an invention to automatically feed a pet when you are away. Students test different ways to release food.	Paper towel tubes, plastic bottles, cardboard, string, tape, small cups
Maker Division – Engineering/Invention	The Great Sound Machine	Students design an invention that makes or changes sound using vibration	Rubber bands, cups, strings, tissue boxes
Maker Division – Engineering/Invention	Super School Supply Organizer	Build a creative desk or backpack organizer to help students keep school supplies neat and easy to find.	Boxes, cardboard dividers, paper, glue, markers, tap

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Maker Division – Engineering/Invention	Snow Shovel Robot	Create a model robot or machine that can help clear snow or debris from sidewalks.	Cardboard, paper cups, craft sticks, tape, Dash or LEGO robot (optional).
Maker Division – Engineering/Invention	Eco Bottle Recycler	Invent a system or machine that helps sort and recycle bottles or cans automatically.	Recycled materials, cardboard, plastic lids, glue, labels
Maker Division – Engineering/Invention	Helping the Earth	Students design an invention that helps plants grow faster or saves water in gardens.	Water bottles, paper straws, tape, clay, soil, small seeds
Maker Division – Engineering/Invention	Snow White’s Apple Detector	Snow White needs a way to know which apples are poisoned. Students design a “smart apple detector” or filtering device.	Cardboard, recycled containers, clear cups, paint, foil, labels
Maker Division – Engineering/Invention	Cinderella’s Time Saver	Cinderella runs out of time before the ball! Students create a tool to help her finish chores faster or a shoe that never falls off.	Recycled boxes, rubber bands, tape, yarn, craft materials
Maker Division – Engineering/Invention	Hansel and Gretel Crumb Finder	The trail of crumbs disappears! Students design an invention to help Hansel and Gretel find their way home.	Paper, yarn, magnets, small lights, recycled plastic bottles
Maker Division – Engineering/Invention	The Gingerbread Bridge	The Gingerbread Man needs to cross the river safely without being eaten. Students engineer a bridge or boat to get him across.	Craft sticks, foil, paper, clay, glue, toy Gingerbread figure
Maker Division – Engineering/Invention	The Three Bears’ Security System	The Bears want to stop Goldilocks from sneaking in again! Students invent a security alarm or alert system.	Bells, string, cardboard, tape, recycled containers
Maker Division – Engineering/Invention	Build a Light Communicator	Students create a device that uses light to send signals across the classroom	Flashlights, paper tubes, colored film, tape
Experiment	What Makes Ice Melt Fastest?	Students test how different substances (salt, sugar, sand) affect how quickly ice melts.	Ice cubes, salt, sugar, sand, bowls, timer, chart paper

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Experiment	Do Seeds Grow Better in Light or Dark?	Students test how light affects plant growth by placing one seed in sunlight and another in the dark.	Bean seeds, cups, soil, labels, ruler, notebook
Experiment	What Shape of Boat Floats Best?	Students design boats of different shapes and test which can hold the most weight without sinking.	Foil, small weights (coins or beads), water tub, paper towels
Experiment	Which Object Rolls Farther?	Students roll different objects down a ramp and measure which travels the farthest.	Ramp, toy car, marble, ball, measuring tape, chart paper
Experiment	Does Color Affect Temperature?	Students place thermometers under different colored papers in sunlight to see which gets hottest.	Black, white, and colored paper; thermometers; timer; sunlight
Experiment	Which Paper Towel Soaks Up the Most Water?	Students compare different brands or paper types to test which absorbs the most water.	Paper towels, cups, water, measuring cup, chart paper
Experiment	What Makes a Bubble Last Longer?	Students test if adding sugar, salt, or corn syrup makes bubbles last longer before popping.	Dish soap, sugar, salt, corn syrup, straws, timer
Experiment	Which Magnet is Strongest?	Students compare different magnets to see which picks up the most paper clips.	Various magnets, paper clips, ruler, data table
Experiment	Push or Pull Power	Students test how pushing or pulling with different strengths changes how far an object moves	Toy cars, ramps, ruler, tape
Experiment	Best Roof for Rain	Students test different roof materials to see which keeps a paper house driest during a “rainstorm.”	Paper, foil, wax paper, water spray bottle