

Preschool Project Ideas

Project Division	Project Idea	Overview	Possible Materials
Maker Division - Model	Weather Wonders	Create a model showing sunny, rainy, snowy, and windy weather. Students use art materials to represent each type of weather and discuss what happens during each.	Cotton balls, blue tissue paper, paper, sun shapes, craft sticks, glue, paint.
Maker Division – Model	Animal Homes	Students design a model of an animal’s home such as a bird nest, beehive, or doghouse. They describe where their animal lives and why.	wigs, paper, clay, cardboard, feathers, yarn.
Maker Division – Model	Garden Grow	Students create a model of a garden showing plants above and below the soil. They explore what plants need to grow.	Green paper, brown felt, pipe cleaners, play dough, recycled containers.
Maker Division – Model	Under the Sea	Students design an underwater model showing fish, seaweed, coral, and other ocean life. They learn about animals that live in the ocean and what makes them special.	Blue tissue paper, cardboard box, clay or playdough, seashells, paper fish, string (for hanging fish)
Maker Division – Model	Building with Shapes	Students explore shapes by using blocks or paper cutouts to build a city or playground. They discuss which shapes are strong for building and which are for decoration.	Wooden or foam blocks, shape cutouts, glue, construction paper, markers, stickers.
Maker Division – Model	Make It Move	Students build a simple car or spinner that moves using pushes or pulls.	Paper wheels, straws, string, tape, cardboard tubes
Maker Division – Engineering/Invention	Rainy Day Helper	Students think about what happens on a rainy day and design an invention to help—like a “super umbrella” or “puddle jumper.”	Paper, tape, cardboard tubes, foil, markers, plastic wrap, cups
Maker Division – Engineering/Invention	Build a Bridge for Bears	Students design and test a bridge that helps toy bears cross a “river” without falling in.	Craft sticks, tape, cardboard, toy animals, small bins of water

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Maker Division – Engineering/Invention	Snack Machine	Create a simple invention that helps deliver snacks or open containers. Students use recycled materials to show how it might work.	Boxes, string, plastic cups, tape, craft sticks, paper plates
Maker Division – Engineering/Invention	Lost Toy Finder	Design an invention to help find lost toys. Students brainstorm what tools could locate or reach missing items.	String, magnets, paper tubes, pipe cleaners, small boxes, markers
Maker Division – Engineering/Invention	Helping Hands	Build a tool that helps someone reach, pick up, or carry things, just like a robot arm or grabber	Tongs, rubber bands, straws, tape, cardboard, craft sticks
Maker Division – Engineering/Invention	Clean-Up Crew	Design a model machine that helps clean up toys or trash. Students can explain how it helps people and keeps spaces clean	Tissue boxes, toy wheels, string, glue, stickers, paper
Maker Division – Engineering/Invention	Build a Bed for Goldilocks	Goldilocks keeps breaking the bears’ beds! Students design a strong, comfy bed that is “just right.”	Popsicle sticks, cardboard, tissue paper, glue, fabric scraps, cotton balls
Maker Division – Engineering/Invention	Keep the Pigs Safe	The Big Bad Wolf keeps blowing the pigs’ houses down. Students test different materials to build a house that can stand strong.	Straws, craft sticks, blocks, cardboard, glue, fan or hairdryer for testing
Maker Division – Engineering/Invention	Rapunzel’s Rescue	Rapunzel needs a way to escape her tower safely. Students invent something to help her climb down.	String, paper cups, cardboard tubes, toy figure, tape
Maker Division – Engineering/Invention	Help Jack Get Down	Jack climbs the beanstalk—but how will he get down quickly and safely? Students design a parachute or slide system.	Coffee filters, string, paperclips, toy figure, tape
Maker Division – Engineering/Invention	A New Basket for Little Red	Little Red Riding Hood’s basket keeps spilling! Students create a stronger or smarter basket for her to carry food to Grandma.	Paper plates, cardboard, ribbon, glue, markers, tape.
Maker Division – Engineering/Invention	Helping Hands Tool	Students design a grabber or helper tool to pick up toys or reach items.	Cardboard, rubber bands, tape, paper clips

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Experiment	What Melts Fastest?	Students explore which materials melt the fastest when placed in warm water or sunlight (ice, chocolate, butter).	Bowls, ice cubes, chocolate, butter, timer, chart paper
Experiment	Do Plants Need Sunlight?	Students grow two plants, one in sunlight and one in shade, to see how light affects growth.	Bean seeds, soil, pots, labels, ruler
Experiment	What Happens When You Mix Colors?	Students predict what new color will form when two colors mix, then test with paint or water colors.	Paint, droppers, cups, paper towels
Experiment	What Floats and What Sinks?	Students test a variety of objects to see which float or sink in water and record their results.	Tub of water, small toys, coins, paper clips, foam, paper, chart paper
Experiment	Which Ball Bounces Higher?	Students drop different types of balls to test which one bounces highest.	Rubber ball, ping pong ball, tennis ball, measuring tape
Experiment	Which Object Rolls Farther?	Students test how far different objects roll down a ramp (toy car, marble, block).	Ramp, toy car, marble, ruler, masking tape, chart
Experiment	What Makes Ice Melt Fastest?	Students test if salt, sugar, or plain water makes ice melt faster.	Ice cubes, salt, sugar, spoons, bowls
Experiment	What Makes a Shadow?	Students use flashlights to see which objects block light and create shadows.	Flashlight, toys, paper, markers, chart paper
Experiment	Shady Spots	Students test different materials to see which keeps a toy cooler under sunlight.	Fabric, foil, paper, thermometer, toy figure
Experiment	Sound Explorers	Students test how different materials make sounds when hit or shaken.	Plastic bottles, rice, rubber bands, cups, spoons