

Materials List

4th Grade

Week 1	 Classroom objects Measuring tools (e.g., rulers, measuring tapes, scales, beakers, syringes, thermometers, etc.) Items to measure (assorted classroom objects that can be measured using the measuring tools chosen for the stations) Tape Paper (optional) Meterstick 	 Classroom objects that can be measured using a ruler Classroom objects that can be measured using a scale Yardstick Standard rulers (in., ft.) Graduated cylinders Water, beakers Books Calculators
Week 2	 Paper (optional) Chart or butcher paper Vinegar (4 cups) Food coloring 	 Resealable plastic bags Baking soda (5 Tbsp.) Toilet paper or tissues
Week 3	 Chart paper (one for the class) Research materials (online resources, library books, etc.) Materials to test (cardboard, plastic, paper, etc.) Materials to build products, enough for each student to create one project (plastic bags, shoe boxes, thin cardboard boxes [cereal or cracker boxes], glue, duct tape, masking tape, beads, pipe cleaners, stickers, markers, colored paper, scrapbook paper, scissors, etc.) 	 Chart paper (one for class) School supplies, enough for the class to share to create a product (glue, scissors, colored pencils, markers, pencils, pens, rulers, etc.)
Week 4	 Black construction paper Yellow and white colored pencils Map of the United States (optional) Materials to create classroom models 	 Tape Chart paper Materials to make advertisements (construction paper, posters, glue, scissors, crayons, colored pencils, etc.) (optional)
Week 5	 Chart paper Paper (32) Tape Books (various sizes and weights for testing paper towers for class to share) Research materials (online resources, library books, etc.) 	 Plastic cups Rubber bands (optional) Paper clips (optional) Yarn (optional)

Week 6	 Ping pong balls Basketballs Toy car Ramp Bowl of water Tuning fork 	 Disposable foil pie pans (optional) String or yarn (optional) Sticks Pens or pencils (optional) Baseballs Premade gongs (optional)
Week 7	BaseballsSoftballs	Baseball equipment (optional)Paper ball (optional)
Week 8	 Chart paper (optional) Grid paper Chairs Meter stick Fishing line 	 Fishing weights or washers Pens or markers Pool noodles (cut in half lengthwise) Masking tape Marbles Stopwatches or timers
Week 9	 Clipboards (optional) Paper (optional) Materials to test static electricity (tissue paper, cardboard, aluminum foil, books, etc.) Different types of batteries (AA, AAA, C, 9V2, etc.) Button batteries 	 5mm LED diode bulbs Salt Pepper Paper or plastic cups Balloons Wool fabric (optional) Wax paper
Week 10	 Research materials (online resources, library books, etc.) Small marbles Large marbles Masking tape 	 Meter sticks Water bottles or milk jugs Several balls per group (basketball, baseball, tennis ball, ping pong ball, etc.)
Week 11	 Scissors Rulers with grooves Marbles Bowl Thin metal baking sheet Plastic wrap (enough to cover the bowl) Tape or rubber bands (one roll of tape or three rubber bands to fit over the bowl) Speaker (optional) Drum Drumstick Rice (1/8 cup) Stopwatch or timer (one per group) Calculators Red food coloring 	 Blue food coloring Beakers Water Heat source (stovetop, microwave, hot plate, etc.) Ice Red and blue crayons Balloons Lightweight string Thread or curling ribbon Wool fabric (socks, mittens, scarf, sweater, blanket, etc.) Tissue paper Empty aluminum can

Week 12	 Bluetooth speaker Materials to build a Rube Goldberg Machine: Toilet paper rolls Straws String Paper Tape Marbles or ping pong balls 	 Empty soda bottles Aluminum cans Toys such as cars, yo-yos, blocks, etc. Balloons Rubber bands Springs Ribbons Hair ties
Week 13	Power bill (optional)	
Week 14	 Pennies, blocks, or tiny pieces of paper 	
Week 15	 Shallow dishes or pie pans Straws Medium- or large-sized container Hair dryer or compact fan Metersticks Dominoes Stopwatches 	 Cotton string or yarn Paper clips Paper towels Nail or other sharp object Water Calculators Rulers Plastic cups
Week 16	 Spring toys Jump ropes Recyclable materials to build devices that capture wind energy (optional), Fans or blow dryers (optional) Plastic container, book, tarp or other covering (optional) Clay 	 Sand (4 cups) Water Blue food coloring Tape Ruler Hair dryer Five-gallon plastic ice cream container lid
Week 17	 AA batteries 5mm LED diode bulbs Aluminum foil or copper tape 	TapeProps (optional)Flashlights
Week 18	 Colored pencils, crayons, or markers Tape or glue White paper or cardstock Prism Scissors 	 Flashlights Markers or colored pencils 3x5 index cards Black markers
Week 19	 Chart paper (optional) Sentence strips Tape Large styrofoam balls Medium styrofoam balls Popsicle sticks Blue, green, and yellow markers 	 Gray markers Flashlight or projector light Paper plates (optional) Pencils or wooden sticks (optional) Compasses (optional) Floor lamp (optional) Small styrofoam balls

Week 20	 Different types of green leaves Microscopes or magnifying glasses Glass beakers Rubbing alcohol Hot tap water Coffee filter Scissors 	 Graph paper Rulers or straight-edges Calculators Short story or children's book Green leaves Clear cup(s) Water
Week 21	 Chart paper (optional) Music Chairs Research materials (online resources, library books, etc.) 	PostersMap of the world (optional)
Week 22	• Recyclable materials, such as milk cartons, egg cartons, soda bottles, empty plastic containers, cardboard, balloons, rubber bands, craft sticks, straws, fabric, packing materials, etc.	 Boiled eggs Tarp or other covering (optional)
Week 23	 Research materials (online resources, librate Objects for obstacle course (chairs, desks, Blindfolds 	•
Week 24	 Sticky paper Glass pebble Mirrors Sugar (1 tsp per student) Salt (1 tsp per student) Baker's chocolate (one small piece per student) Lemon wedges or a different set of sweet, salty, bitter, and sour foods (one small wedge per student) Velvet Sticky paper Slime Sponge 	 PTC taste test paper strips* Jelly beans or another fruit-flavored candy Plastic cups Lemon juice (1% c per student) Tonic water (1% c per student) Tap water (1% c per student) Toothpicks Burlap Paper bags Sandpaper Cotton balls Dark colored container (mylar bags)
Week 25	 Tools (screwdriver, tape measure, pliers, wrench, drill, etc.) Three different colors of paper Scissors Timer or stopwatch Glass jars or clear containers Food coloring Stalks of celery Tarp or other covering Skewers 	 Plastic Spoons Clothespins Large popsicle sticks Plastic cups Paper plates Rice (4 cups) Rubber bands Dry macaroni noodles (4 cups) Beans (4 cups) Research materials (online resources, library books, etc.)

Week 26	 Adding machine tape or butcher paper Rulers (mm, cm) Meterstick(s) Chart paper (optional) Paper (optional) Research materials (online resources, library books, etc.) Marshmallow crispy treats Strawberry or pink canned frostin Fruit leather or fruit snack rolls Gummy worms Gummy fish Chocolate candies or fruit snacks 	 Plastic knives or popsicle sticks Paper plates Tape or glue Balls of clay Small instruments (i.e., paper clips, pencils, plastic animals, plastic dinosaurs, plastic plants, etc.) Chart paper (optional) Paper Colored pencils, markers, and/or crayons Other crafting materials for books (optional) Chocolate canned frosting
Week 27	 Signs Six-sided dice Plaster of paris Water Molds or 1/2-pint milk cartons Petroleum jelly (optional) Sedimentary rocks (optional) Large cups 	 Gravel and/or shells Metamorphic rocks (optional) Clay Craft sticks Igneous rocks, including pumice (optional) Magnifying glasses (optional) Sand (32 cups)
Week 28	 Ruler, yardstick, or measuring tape (optional) Sugar cubes or hard candies Aluminum pan Sand (4 cups) Ruler Glass of water Large containers filled with water Rocks Balloons Oranges 	 Marshmallows Sugar cube sculpture Glue Eyedropper Soda Rulers Glass bottle Water Plastic bag to hold glass bottle Freezer
Week 29	 Map (optional) Metersticks, yardsticks, or measuring tapes (optional) Graph paper (optional) Caches or materials to create caches (manila folders, plastic bags, markers, etc.) 	 Compasses Clay, play dough, or salt dough Dental floss Paper Materials to create team tokens (paper, index cards, colored pencils, markers, crayons, etc.)
Week 30	 Chart paper (optional) Colored pencils and/or crayons Water Container Needle 	 Balloons Tape, tablecloths, or sheets of butcher paper Sticky notes

Week 31	 Toothpicks Mini-marshmallows Textbooks or notebooks Containers that can hold up to one cup of water (e.g., plastic bins, aluminum pie tins, etc.) Water pitcher filled with water Various craft supplies (e.g., clay, play dough, sponges, paper, marshmallows, toothpicks, pipe cleaners, etc.) Electric fan or hair dryer 	 Index cards Straws Popsicle sticks String Pipe cleaners Tape Tennis balls Scissors Rulers Stopwatches
Week 32	Baking sodaVinegarTrays of sand	 Water Research materials (online resources, library books, etc.)