

Materials

Classroom Supplies

To help you make advance preparations, this table lists the classroom items used for this unit. See the lessons for information about how each item is used.

Quantity	Item	Lesson(s)
13 large sheets	Chart paper	1, 2, 8, 11, 14, SBA 2
1 pad per group	Self-sticking notes	1, SBA 5
2 boxes	Baking soda	2, 15
1	Beverage stirrer or chopstick (optional)	2
6 per group	Bowls, plastic or foam, 240 ml (8 oz)	2, 12, 14
About 500 ml (2 C)	Dish soap	2
About 500 ml (2 C)	Flour	2
1 per group	Marker, permanent	2, 6
1 roll	Masking tape	2
1 sheet per desk	Newspaper or plastic (optional)	2
About 500 ml (2 C)	Rice	2
Class set	Safety goggles	2, 15
1 pair per group	Scissors	2
24	Spoons	2, 13
About 1 liter (2 pt)	Vinegar, white, distilled	2, 15
Various amounts	Water	2, 3, 4, 5, 6, 8, 9, 10, 12, 13, 14, SBA 3
3	Soda bottle, glass or plastic	2, 5
1 set of about 50 g per group	Connectable or stackable solids (blocks, cubes, or coins)	3
1 per group	Drop cloth or newspaper (optional)	3
2 per group	Knives, plastic	3, SBA 4
3	Laundry items such as socks or washcloths	3
1 per group	Paper plates	3
1 per group	School milk cartons, empty and clean (optional)	3, 4
1 set	Base-10 blocks: 1-units, 10-rods, 100-flats, and 1000-cube	4
1 package	Popcorn, unpopped kernels	4, 12
1 roll	Paper towels	4, 5, 6, 9, 15
1	Ruler, metric (optional)	4
1 per group	Cups, plastic or paper, any size	5, 8, 14
3	Floating objects, small, such as cork, foam packing peanuts, or crumpled aluminum foil	5
6 sheets	Paper, 8½" × 11"	5, SBA 3
2	Pitchers or liter bottles	5, 9, SBA 3

HIGHLIGHTED ITEMS ARE INCLUDED IN THIS PACKAGE

Quantity	Item	Lesson(s)
4	Plastic bags	5
1 or more	Squeeze bottles (optional)	5
2	Tubs or large bowls	5
1 package	Aluminum foil	6
1 per group	Foam objects, large, such as blocks of packing foam from appliances	6
100 ml, or 100 ml per group	Honey, corn syrup, or molasses	6
1 package	Lightweight clay (e.g., Binney & Smith Crayola® Model Magic) (optional)	6
100 ml, or 100 ml per group	Oil, cooking	6
1 per group	Steel objects, medium, such as socket wrenches or crescent wrenches	6
1 per group	Steel objects, small, such as sockets from a socket, wrench, marbles, bolts, or nuts	6
1 per group	Wooden objects, medium, such as short pieces of two-by-four boards, stout sticks, or other solid wooden objects	6
1 per group	Cup warmers or other low-temperature heat sources (optional)	7
Various amounts	Ice	7, 9, 10
1	Overhead projector	7, 14, 15, SBA 6
30 ml (2 tbsp) per student or pair	Olive oil	7
2 per student or pair	Plastic bags, resealable, snack size	7
1	Portable ice chest with ice packs	7, 9, 10
2 per group	Tart pans (optional)	7
Quarter sheet per student	Construction paper, various colors	8
several	Containers, various shapes and sizes	8, 10
1 bottle	Food coloring	9, 14
3, or 3 per group	Glass or metal containers, 100–250 ml (3.5–8 oz)	9, 14
1	Humidifier, cool mist (optional)	9
1 for 9; 1 per group, plus extras for 15	Plastic bags, resealable, sandwich size	9, 15
2 per group	Tissues	9
1	Fan (optional)	10
1	Heating pad (optional)	10
1 or more	Thermometers (optional)	10, 11
1 per group	Display boards (optional)	11
1	Bag of recyclable items including crumpled paper, steel and aluminum cans, plastic bottles, and glass bottles	12
120 ml (½ C) per group	Popcorn, popped	12
1 sheet	Black paper	13
1 package	Salt	13
1 per group	Stirring sticks (optional)	13

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Quantity	Item	Lesson(s)
1	Teaspoon	13
4 boxes, 500 g (16 oz) each	Cornstarch	14
1	Mixing bowl, large	14
2	Pens, 2 colors, water based	14
1	Plastic garbage bag	14
1	Sealed container	14
1 or 2 rolls	Wax paper (optional)	14
1	Apple, pear, or banana	15
250 ml (1 C)	Black tea	15
1	Can opener	15
1 pair per student	Gloves, vinyl	15, SBA 4
1	Knife for teacher	15
1	Measuring cup, 500 ml (2 C) or larger	15
250 ml (1 C)	Pineapple juice, canned	15
1 per group	Apples (same kind, similar in appearance)	SBA 2
Class set	Colored pencils (optional)	SBA 2
1 sheet per group	Paper	SBA 2
1 sheet per student	Paper, white (optional)	SBA 2
1 or more per group	Pencils	SBA 2
1 per group	Trays	SBA 2
1	Bathroom scale	SBA 3
2	Objects for weighing that weigh close to but under 500 g (e.g., shoes)	SBA 3
4	Objects for weighing that weigh less than 500 g	SBA 3
1 loaf	Bread, sliced, in packaging	SBA 4
1 jar	Jelly	SBA 4
A few	Napkins or wipes	SBA 4
Several	Balls, various shapes and sizes	SBA 5
1 roll	Masking tape	SBA 5
1 per group	Meter sticks	SBA 5
5 pieces	Tape, stickers, or bits of clay (optional)	SBA 6
1	World globe (optional)	SBA 6