

## Activity 1 What You Need 10–20 clear lids, preferse Small juice

☐ 10–20 clear, 2–6 ounce jars with water-tight
lide preferably of the same size and shape.
Small juice bottles, baby food, spice or taco
sauce jars are all appropriate.
□ 5–15 liquids of different colors and
this image of such as shamboo, baby on,
cooking oil, liquid starch, corn syrup, water,
tempera paint, liquid glue, hair conditioner,
glycerine, rubbing alcohol, soy sauce,
molasses, dishwashing liquid, salad
molasses, distiwasimis inquisi,
dressing, etc.  ☐ one or more colors of food coloring
□ a box for storing the containers upright
a box for storing the containers apply a section of the chalkboard or a large piece
of paper
a small funnel for filling the bottles
(optional)
1 piece of white posterboard or paper at
least 8½" × 11" to serve as a background
(optional)

## Activity 2

## What You Need

For	the	C	lass	:
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	1 pitcher, 2–4 quart capacity (2–4 liters)
	1 clear wide-mouthed container, 2-4 quart
	capacity (2-4 liters). A large glass jar or the
	bottom cut from a 2-liter clear, plastic,
	colorless soda bottle will work.
	3 quart or liter bottles of salt-free seltzer
	water
	2 lemons
	1 knife (for cutting lemons)
	¾ cup sugar
	container to hold sugar
	1 tablespoon
	1 plastic stir stick (coffee stirrers or popsicle
	sticks work well)
	1 long-handled spoon
	1 squeeze bottle of red food coloring
	1 squeeze bottle of blue food coloring
	1 blank piece of paper
	1 bucket, or access to a sink
	paper towels or sponges
П	a chalkboard or a large piece of paper

For each pair of students:	
☐ 3 tall, clear plastic cups, 10-ounces (the taller	
the cup, the better the opportunity to see	
the downward pattern of the swirls)	
☐ 2 small paper cups	
☐ 1 container for salt, such as a margarine tub	
or other wide-mouthed, squat container	
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5 teaspoons kosher or pickling salt (kosher	
or pickling salt are preferable because when	
dissolved they leave no visible trace. The	
additives in most other varieties of table salt	
cause water to look cloudy. If additive-free	
salt is unavailable, any table salt will work.)	
☐ 1 plastic stir stick	
☐ 1 teaspoon-sized spoon	
☐ 2 crayons	
☐ 2 pencils	
☐ 2 "Swirling Colors" data sheets, master	
included, page 23	
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Activity 3	
Activity	
What You Need	
What You Need	
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For the class:	
☐ newspaper (enough to cover the tables and	
some extra)	
a water bucket, or access to a sink	
☐ 1 pitcher, 1–2 quart capacity (1–2 liters)	
☐ 1 clear, 8–10 ounce cup	
☐ 1 cup of cooking, salad, or baby oil	
☐ 1 tray	
☐ several extra paper plates	
☐ approximately 7 yards of waxed paper	
a chalkboard or 2 large pieces of paper	
dishwashing soap, sponges, and paper	
towels for cleanup	
For each pair of students:	
$\Box$ 1 4–10 ounce container for holding water,	
such as a paper cup, or a cottage cheese	
container	
☐ 1 high-rimmed bottle cap, such as those	
from vinegar jugs or screw top bottles	
2 drinking straws (clear straws are	
preferable but not essential)	
☐ 2 9-inch paper plates	

## **Activity 4** What You Need ☐ 3 clear, 8–10 ounce cups ☐ 1 squeeze bottle of blue food coloring ☐ 1 pint of water ☐ 1 pint of mineral oil, baby oil, or paraffin oil ☐ 1 clear, colorless tall bottle with a tightfitting lid, such as tall baby food or juice jar, etc. Get more than one bottle if you'd like to make more than one ocean in a bottle. A 1-liter seltzer bottle, such as the one obtained for Activity 2, would also work well. ☐ 1 funnel if the bottles are narrow-mouthed ☐ a ziplock storage bag or other plastic bag large enough for each bottle you use ☐ 1 tray ☐ 1 large piece of white posterboard or paper (optional) **Activity 5** What You Need For the class: ☐ ½ gallon of salad oil For each student: ☐ 1 quart of cider or wine vinegar $\square$ 14–8 ounce jar with a tight-fitting lid, such ☐ 1 clear, wide-mouthed container, 2–4 quart as a baby food or jam jar. ☐ 1 "Secret Salad Dressing" recipe sheet, capacity (2-4 liters) A large glass jar, pitcher, or the bottom of a 2-liter clear, master included, page 49 colorless soda bottle will work. ☐ 1 ziplock plastic bag, large enough to hold a ☐ 1 long-handled spoon 4–8 ounce jar ☐ 15 bowls or dishes, such as paper ice cream crayons to match the colors of construction cups, margarine tubs, or cottage cheese paper containers ☐ a pencil ☐ 5 sheets of construction paper in 5 different ☐ approximately ½ cup (½ ounce) each of: oregano, sage, rosemary. If possible, obtain fresh herbs. ☐ approximately ½ cup (2 ounces) of pepper (coarsely ground) ☐ approximately ½ cup of salt ☐ 1 tray ☐ 1 roll of masking tape ☐ 1 pair of scissors ☐ newspaper to cover the tables ☐ a blank piece of paper, large enough to cover the label of the vinegar bottle a bucket if there is no access to a sink in your classroom ☐ dishwashing soap, sponges, and paper towels for cleanup