

## Inquiry Project: Grade 5 Curriculum Materials Kit List

(assume class of 24 students in 6 groups)

Qty	Item	Description	Details
24	plastic syringes	1 ml plastic syringes	No drop-count graduations
1 lb.	kosher salt	Kosher salt	
24	magnifiers	plastic magnifier; approx 11cm long; 2 magnifying areas (3X, 6X)	Sargent-Welch economy dual magnifier
6	digital scales	Digital scales	Escali Primo digital multifunctional scale - model P115C
1	balance	Ohaus School Balance (SB 1200)	store.ohaus.com
1	balloon pump	Balloon pump	
12	balloons	16 inch balloons	
3	vortex bottle connectors	Vortex bottle connectors with opening enlarged to 7/8 in. diameter	
4	1-liter plastic bottle	1-liter plastic bottles	
3	2-liter plastic bottles	2-liter plastic bottles	
1	spray mister	Spray mister (2-ounce clear plastic pump bottle that creates a very fine mist)	<a href="http://www.abundanthealth4u.com">http://www.abundanthealth4u.com</a> (product number 9244A)
48	clear plastic bottles with snap-on covers	50 dram (184.8 ML'S) Thornton clear plastic bottles with snap-on covers	Thornton Plastic Co; <a href="http://www.thorntonplastics.com">www.thorntonplastics.com</a> 50 dram clear plastic bottles with snap-on covers
12	100-ml graduated cylinder	100-ml plastic graduated cylinder	Kartell 100ml graduated cylinder (code 1079) is recommended
2.5 liters	fine sand	Fine sand (washed)	
2.5 liters	gravel	Gravel	
½ liter	small rounded stones	Small (½ – ¾ inch) rounded rocks	
6 oz bottle	glycerine	One 6oz. bottle of glycerine	
1 small bottle	Joy dish detergent	Joy (liquid dish detergent)	

14	sandwich boxes	Sandwich boxes with covers; volume approx 3 cups Inside at top: 5.5" x 5.5" x 1.75" deep; clear plastic	Approx. dimensions, transparency, and lid are important Cover needs tight seal, to prevent evaporation of water
6	plastic trays	Red or black plastic trays (10 in. x 12.5 in.)	
1 bottle	blue food coloring	Blue food coloring (tiny plastic bottle)	
60	plastic cups	12-oz. clear plastic cups	
1	plastic water pitcher	Plastic water pitcher (approx. 2 quarts)	
32	syringes without needles	Temuro 10cc Luer Lock Tip Syringe without Needle, Graduations: 0.2cc	<a href="http://www.terumotmp.com">www.terumotmp.com</a> product code: SS-10L
10 pieces	caps for syringes	Caps for the Luer Lok Tip Syringes (1 packet of 10 )	Available from McMaster-Carr: <a href="http://www.mcmaster.com">www.mcmaster.com</a> Part # 51525K372 Plastic Quick-Turn (Luer Lok) Tube Couplings (Caps, Female)
20 ft.	pvc tubing	Clear, flexible PVC tubing 1/8 <sup>th</sup> in. ID; 1/4 in. OD; 1/16 <sup>th</sup> in. wall thickness	Available from McMaster-Carr <a href="http://www.mcmaster.com">www.mcmaster.com</a> Part # 5233K52 Masterklear PVC Tubing
3	aluminum reflector lamps	Aluminum-reflector type work lights (8-1/2-inch diam; 100-watt bulb capacity)	
3	100-watt bulbs	100-watt bulbs (Clear)	
2	½ in. mini ice cube tray	Mini Ice cube tray (Holds 90 ½-inch cubes per tray)	
3	bases for 2-bottle systems	Bases for 2-bottle systems	Specifications provided as separate document
2	1 gal. bucket	Plastic 1-gallon bucket	
24	plastic spoons	Heavy-duty plastic spoons	
200	plastic centimeter cubes	Plastic centimeter cubes (flat sides; not interlocking type)	
1	black rubber stopper	Black rubber stopper, 1-hole, #3	
24	conical paper cups	4-oz conical paper cups	
12	8-oz. plastic bottles with caps	8-oz. clear plastic bottles with screw-caps diam. Approx. 1-7/8 in. x 6-3/4 in. tall	

### Supplies from the classroom:

- 12 index cards
- paper towels
- masking tape
- 6 rubber bands
- fine-tip permanent markers or pens
- extension cords as needed

Access to a freezer, copier, hot/ cold water source, interactive whiteboard or flip chart, and a computer with project or interactive whiteboard

### Refill/Replacement kit:

Qty	Item	Description	Details
1 lb.	kosher salt	Kosher salt	
12	balloons	16 inch balloons	
2.5 liters	fine sand	Fine sand (washed)	
2.5 liters	gravel	Gravel	
½ liter	small rounded stones	Small (½ – ¾ inch) rounded rocks	
60	plastic cups	12-oz. clear plastic cups	
24	conical paper cups	4-oz conical paper cups	