



# Grade 7 • PHYSICAL SCIENCE

# Chemical Interactions

**A** Cautionary warnings. Not intended for children under 3.

<b>A</b>	Description	Item Number	Qty in Repl Pkg	Qty in Orig. Kit	Repl. Pkg Order Qty
<b>Core Components</b>					
(1,2,7)	Next Generation Complete Course	1558463			
(1,2,7)	Next Generation Lite Course	1602473			
(1,2)	Next Generation Permanent Equipment Only	1602474			
(2)	Refill Kit	1547083			
(1)	Conversion Kit from Chemical Interactions, 1st Edition	1558474			
	FOSS Science Resources Student Book (each)	1558519			
†	FOSS Science Resources Student Book (pack of 16)	1558511			
<b>Drawer 1—Permanent Equipment</b>					
	Air pump with inflation pin (with 3 replacement pins)	010-6629	1	1	
(7)	Atom representation magnetic set, 4 sheets/set	050-3505	1	1	
	Ball, rubber, inflatable	025-4787	1	1	
(1)	Binder clips, small	024-8481	36	36	
(1)	Bottles, glass, 8 dram	024-8492	9	18	
(1)	Dropper bottles	041-0294	20	20	
	Pipettes, plastic	160-6428	1	50	
†	Poster, <i>Periodic Table of the Elements</i>	162-6833	1	1	
	Posters, FOSS Sensemaking, set of 3	2013012	1		
	Trays, plastic, tote	201-8988	1	8	
	Trays with small wells, plastic	201-9020	1	36	
	Tubes, plastic, flexible, 10 cm (4")	202-0624	40	40	
	Tubes, plastic, flexible, 45 cm (18")	201-8966	10	10	
	FOSS vial holders	222-2050	1	8	
<b>Drawer 2—Permanent Equipment</b>					
	Atom-tile sets, 15 tiles/set	1391854	18	18	
(1)	Bottles, plastic, 120 mL (4 oz.), with screw caps	1547079	10	10	
†	Cups, plastic, 60 mL (2 oz.)	1547158	1	40	
	Funnel stand	060-2887	1	8	
	Pipes, rigid plastic, clear, 7.5 cm	160-9629	18	18	
	Pipes, rigid plastic, clear, 10 cm	162-7935	18	18	
	Sphere-and-ring set, brass	025-4645	1	1	
† (1)	Stoppers, rubber, #1, with 1 hole	193-9418	18	36	
(1)	Stoppers, rubber, #3, with 2 holes	193-9429	10	10	
(1)	Stoppers, rubber, #4, with 1 hole	193-6341	10	10	
	Syringes, 35 mL	192-8835	18	36	
<b>Drawer 3—Permanent Equipment</b>					
	Jars, clear, unbreakable, 250 mL (8 oz.)	100-0449	1	34	
†	Labels, printed adhesive, for dropper bottles and jars	1547145	1	1	
	Spoons, midspoons, white, small	193-6330	10	10	
	Spoons, minispoons, green (smallest)	1354719	85	85	
†	Spoons, white plastic, with long handle, 2 mL	1547081	28	28	
(1)	Vials, with screw caps	222-3631	10	20	
(1)	Ascorbic acid vial set	222-3533	10	10	
(1)	Calcium carbonate vial set	222-3544	10	10	
(1)	Calcium chloride vial set	222-3555	10	10	
(1)	Citric acid vial set	222-3566	10	10	
(1)	Magnesium sulfate vial set	222-3588	10	10	
(1)	Mystery mixture vial set	222-3522	10	10	
(1)	Sodium bicarbonate vial set	222-3599	10	10	
(1)	Sodium carbonate vial set	222-3610	10	10	

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<b>Drawer 3—Permanent Equipment (continued)</b>					
(1)	Sodium chloride vial set	222-3620	10	10	
(1)	Sucrose vial set	222-3577	10	10	
<b>Drawer 4—Permanent Equipment</b>					
†	Craft sticks	2013264	50	100	
	Containers, 1/2 L	030-6426-0	1	18	
	Containers, 1 L	032-8822	1	8	
	Container lids for 1/2 L containers	120-1970	5	5	
	Cup lids for 500 mL (16 oz.) cup	121-1341	10	10	
†	Cups, insulated foam, 177 mL (6 oz.)	031-3730	1	50	
	Cups, plastic, 250 mL (9 oz.)	031-9868	1	50	
†	Cups, plastic, 300 mL (10 oz.)	031-4544	1	25	
†	Cups, plastic, 500 mL (16 oz.)	031-4577	1	50	
	Graduated cylinders, 50 mL, accurate	594216	1	16	
	Hand lenses	130-9428	16	16	
†	Poster, Outdoor Safety	1358828	1	1	
†	Poster, Science Safety	1391354	1	1	
	Spoon set, yellow, 5 spoons/set (1, 2, 5, 15, 25 mL)	190-4924	1	1	
	Thermometer rack	581592	1	1	
	Thermometers, glass, Celsius	201-8977	1	18	
(1)	Antiroll ring	1012705	18	18	
	Thermometers, metal-backed, Celsius	201-1327	1	16	
	Zip bags, medium	023-2891	20	20	
<b>Box 5—Consumable Equipment</b>					
	Aluminum foil, roll	010-1397	1	4	
(2)	Balloons, round, blue	024-2994	100	100	
	Bubble wrap sheet, 8 mm (5/16") bubbles	025-4590	1	1	
	Candles, tea	033-6825	1	8	
	Coding dots, adhesive, 39 sheets/set, 96 dots/sheet	040-8419	1	1	
†	Cups, paper, 90 mL (3 oz.)	031-3686	1	250	
	Filter papers, fine, lab-quality (qualitative #1)	1513796	100	100	
	Food coloring, blue	060-8388	1	1	
	Index cards, unlined	088708	100	100	
	Paraffin wax, 454 g (1 lb.)	230-0308	1	1	
†	Self-stick notes	120-2475	100	500	
	Straws, slim, short	192-3690	50	100	
	Transparent tape, roll	040488	1	1	
	Toothpicks, flat	200-1746	750	750	
	White substance, ascorbic acid (vitamin C)	010-6650	1	2	
	White substance, calcium carbonate (natural chalk)	034-1031	1	1	
	White substance, calcium chloride (road salt)	034-1042	1	1	
	White substance, calcium hydroxide (lime)	034-1053	1	1	
	White substance, citric acid	034-1064	1	1	
	White substance, magnesium sulfate (Epsom salts)	050-3494	1	1	
	White substance, sodium bicarbonate (baking soda)	020-0420	1	3	
	White substance, sodium carbonate (washing soda)	193-6374	1	1	
	White substance, sodium chloride (kosher salt)	190-0139	1	2	
<b>Separate Shipper</b>					
	Hydrochloric acid, 8.7%, 3M, 1 L/bottle	010-5494	1	1	

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	Description	Item Number	Qty in Repl Pkg	Qty in Orig. Kit	Repl. Pkg Order Qty
<b>Teacher-Supplied Items</b>					
	Balance	531697	1		
	Basin	040-0564	1		
	Beaker, glass, 1 L	020-1761	1		
	Bottle, 2 L	020-5017	1		
	Calculator	1471190	1		
	Chart paper	030-3478	4		
	Composition notebook	026029	1		
	Construction paper, black	1492207	40		
	Dish soap, 20 oz.	040-2148	1		
	Eraser, whiteboard	084465	1		
	Fork, metal	060-2909	1		
	Glue stick	070-2272	1		
	Goggles, plastic safety, adult size	190-0029	1		
	Highlighter, assorted	1298145	6		
	Index cards	088707	100		
	Marking pen, dry-erase, assorted	1593097	8		
	Marking pen, dry-erase, black	1593100	12		
	Marking pen, permanent	077399	12		
	Paper, drawing, 8 1/2" x 11"	160-0730	30		
	Paper towels	200-1966	1		
	Pencils, colored	160-1456	12		
	Pitcher	160-2413	1		
	Rulers	180-2305-0	1		
	Scissors	084837	1		
	Sheet protectors	193-4311	16		
	Sponge	190-4770	8		
	Sugar, granulated, 1 lb.	1372343	1		
	Timers	193-6843	12		
	Tray, cafeteria	200-4936	1		
	Vinegar	222-1090	1		
	Zip bags, 1 L	021-1353	25		
	Zip bags, 4 L	021-1331	20		

† This item is included in the Conversion Kit from FOSS® *Chemical Interactions*, 1st Edition.