



Grade 4 • PHYSICAL SCIENCE

Energy

⚠ Cautionary warnings. Not intended for children under 3.

	Description	Item Number	Qty in Repl Pkg	Qty in Orig. Kit	Repl. Pkg Order Qty
Core Components					
(1,3,5,7)	Complete Module—Print Bundle	1487660			
(1,3,5,7)	Complete Module—Digital Bundle	1529841			
	Refill Kit (consumable materials for 3 class uses)	1521060			
(1,3,5,7)	Conversion Kit from Energy & Electromagnetism, 3rd Edition	1521397			
(1,3,5,7)	Conversion Kit from Magnetism & Electricity, 2nd Edition	1521396			
	FOSS Science Resources Student Book (each)	1487706			
†‡	FOSS Science Resources Student Book (pack of 16)	1487616			
Consumable Equipment					
†	Candles, birthday	030-0475	1	1	
	D-cells, alkaline	020-9152	1	16	
†‡	Masking tape	200-0371	1	1	
	Recording dots	040-2103-0	840	840	
Permanent Equipment					
†	AA-cells, alkaline	021-3730	1	16	
†‡ (3)	Ball, table-tennis	020-0782	1	1	
†‡	Basin, 6 L, clear plastic	023-2803	1	1	
†	Basins, 8 L, plastic	040-0564	1	8	
†	Batteries (for tone generator), 9-volt	021-0693	1	2	
	Compasses, magnetic	031-4632	1	8	
†	Container, 1/2 L	030-6426-0	1	2	
	Cords	032-6853	4	8	
†‡ (1)	Corks	1403253	1	20	
	Cups, plastic, 250 mL (9 oz.)	031-9868	1	25	
†	Flashlight, large	060-0600	1	1	
†	Flashlights, small	060-5549	1	8	
	FOSS Balances with pointers	020-9163	1	8	
†	FOSS Bulb holders	1401249	1	16	
†	FOSS Cell holders	1401157	1	8	
†	FOSS Circuit bases	1401155	1	8	
†	FOSS Switches	1401125	1	8	
†	FOSS Tone generators	201-2603	1	2	
† (1)	Gravel	070-3845	1	1	
†	Hand-crank generators with two bulbs	1412715	1	2	
†	Index cards	088708	100	100	
(1)	Lightbulbs, #222	020-5809	10	20	
(7)	Magnets on a post	130-3543	1	8	
† (7)	Magnets, bar	131-7347	2	2	
(7)	Magnets, doughnut-shaped	130-3422	1	36	
†‡	Meter tapes	200-9743	1	16	
† (1)	Mirror clips, plastic	080-2358	32	32	
†	Mirrors	130-2047	1	32	
(1)	Motors	130-3554	1	9	
†	Poster, FOSS Outdoor Safety	1358828	1	1	
†	Poster, FOSS Science Safety	1358827	1	1	
†‡	Posters, FOSS Conservation, set of 4	1443969	1	1	

Continues on next page



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A	Description	Item Number	Qty in Repl Pkg	Qty in Orig. Kit	Repl. Pkg Order Qty
Permanent Equipment (continued)					
	Posters, FOSS Sensemaking, set of 3	2013012	1		
†‡	Ramps, yellow	180-2404	1	16	
(1)	Rivets with rubber washers	180-2899	1	8	
†‡	Ropes, for waves	1521349	8	8	
† (1)	Rubber bands, #33	180-7541	50	50	
†‡	Runways, foam	1448145	1	16	
†	Solar cells, with leads	190-3472	1	18	
(1)	Spacers (plastic counters)	190-9764	50	50	
†‡	Spring toy	2041165	1	1	
†	Springs, replacement for FOSS circuit base, cell holder, & switch	1428564	12	12	
	Springs, replacement for FOSS Circuit Base	2028452	12		
	Springs, replacement for FOSS Bulb Holder	2028453	12		
†‡ (5)	Steel balls, large	190-7861	1	16	
†‡ (5)	Steel balls, medium	99-6409	1	16	
†‡ (5)	Steel balls, small	190-4176	1	16	
	Steel strips	192-3635	8	8	
†	Straws, jumbo	190-6497	50	50	
	Telegraph lines	200-4607	1	8	
(1)	Test objects, 38 objects/bag	201-2372	1	8	
(1)	Washers, large	230-0110	25	200	
(1)	Washers, small	230-0088	100	400	
	Wire stripper	230-5346	1	1	
	Wire, 20-gauge, insulated	230-1683	1	1	
	Wire, 24-gauge, insulated	230-0870	1	1	
†	Zip bags, 4 L	021-5005	10	10	
†	Zip bags, small, 7 x 12 cm (2.8" x 3.5")	021-5830	12	36	
Teacher-Supplied Items					
	Bag, plastic, grocery-type	1284605	1		
(1)	Binder clips, small	031-2620	4		
(1)	Bottle, 2 liter	020-5017	1		
	Chart paper	030-3478	4		
(1)	Paper clips, jumbo	084475	100		
	Pencils, colored	160-1456	12		
	Pencils with erasers	161-0014	16		
	Pitcher	160-2413	1		
(1)	Rice	180-0358	1 lb.		
	Salt	050-2193	1 4 oz.		
	Scissors, student	084837	1		
	Screwdriver	191-8290	1		
	Self-stick notes	120-2475	100		



Grade 4 • PHYSICAL SCIENCE

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Teacher-Prepared Items					
	Straw scoops	1491029	16		
	Wire, copper, insulated, #20, 15 cm	230-7379	10		
	Wire, copper, insulated, #20, 30 cm	230-6931	16		
	Wire, copper, insulated, #24, 150 cm	230-6964	8		

The Complete Module—Print Bundle consists of:
module equipment, one Teacher Toolkit (print), and 32 Science Resources (student textbooks).

The Complete Module—Digital Bundle consists of:
module equipment, and 7 year license to all module resources digitally on FOSSweb on ThinkLink.

The complete module and refill kit are supplied with enough consumable materials for at least 3
class uses before resupply is required.

† This item is included in the Conversion Kit from FOSS® *Magnetism and Electricity*, 2nd Edition.

‡ This item is included in the Conversion Kit from FOSS® *Energy and Electromagnetism*, 3rd Edition.

Phone 800-258-1302 • Fax 800-282-9560 • www.select.schoolspecialty.com/replacement-parts-refill



Grade 4 • LIFE SCIENCE

Environments

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Core Components					
(1)	Complete Module—Print Bundle	1487661			
(1)	Complete Module—Digital Bundle	1529842			
(1)	Refill Kit (consumable materials for 3 class uses)	1514856			
(1)	Conversion Kit from Environments, 3rd Edition	1515741			
(1)	Conversion Kit from Environments, 2nd Edition	1515558			
	FOSS Science Resources Student Book (each)	1487707			
†‡	FOSS Science Resources Student Book (pack of 16)	1487617			
Consumable Equipment					
†‡	Animal shapes set, (7 sheets of each brown, gray, green, red)	1514862	1	1	
(1)	Brine shrimp eggs, vial	1307533	1	1	
	Fish food, flakes	060-0500	1	1	
†	Index cards, unlined	088708	100	100	
	Kosher salt	192-5890	1	1	
(1)	Seeds, barley	190-1217	1	1	
(1)	Seeds, clover	190-1283	1	1	
(1)	Seeds, corn	190-1294	1	3	
(1)	Seeds, pea	190-1525	1	3	
(1)	Seeds, radish	190-1635	1	1	
	Self-stick notes	120-2475	100	400	
(1)	Water conditioner, bottle	033-2624	1	1	
†	Zip bags, 4 L	021-1331	20	40	
Permanent Equipment					
	Basin covers, 6 L	120-5710	1	12	
	Basins, clear plastic, 6 L	023-2803	1	12	
†	Basins, 8 L	040-0564	1	8	
	Baster	1016156	1	1	
	Beakers, 100 mL	020-9218	1	8	
	Beaker, 1 L	020-9207	1	1	
†	Boundary marker flags	1390291	1	25	
	Collecting net (fish net)	140-0354	1	1	
	Construction paper, black, sheets	161-4018	10	10	
†	Container lids, 1/4 L	121-3392	12	12	
	Container lids, 1 L	1388253	8	8	
†	Containers, plastic, 1/4 L	030-6514-1	1	10	
	Containers, plastic, 1/2 L	030-6426-0	1	40	
	Containers, plastic, 1 L	032-8822	1	8	
	Craft sticks	2013264	50	50	
†	Critter Replicators	1442744	8	8	
	Cup lids, plastic, for 250 mL (9 oz.)	120-2937	50	50	
	Cups, plastic, 250 mL (9 oz.)	031-9868	1	50	
†	Fish tunnels	040-3633	1	2	
†	Food Web cards, Mono Lake	1514861	8	8	
†	Food Web cards, Woods Ecosystem	1514860	8	8	
†(1)	Gravel, bag	070-7046	1	1	
	Hand lenses	130-0562	1	32	

Continues on next page



Grade 4 • LIFE SCIENCE

Environments

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A	Description	Item Number	Qty in Repl Pkg	Qty in Orig. Kit	Repl. Pkg Order Qty
Permanent Equipment (continued)					
	Meter tape	200-9743	1	1	
†	Metric rulers, clear plastic, 15 cm	181-2720	8	8	
	Minispoons	192-3580	8	8	
†‡	Noisemakers, clackers	1450457	4	4	
†‡	Noisemakers, clapping hands	1450450	4	4	
†‡	Noisemakers, clickers	1450453	4	4	
†‡	Noisemakers, cow bells	1450463	4	4	
†‡	Noisemakers, finger cymbals	1450454	4	4	
†‡	Noisemakers, gear clickers	1451070	4	4	
†‡	Noisemakers, jingle bells	1450456	4	4	
†‡	Paper bags	020-0067	1	32	
	Pitchers	160-2413	1	2	
†	Poster, FOSS Outdoor Safety	1358828	1	1	
†	Poster, FOSS Science Safety	1358827	1	1	
†‡	Posters, FOSS Conservation, set of 4	1443969	1	1	
	Posters, FOSS Sensemaking, set of 3	2013012	1		
†	Posters, Mealworms, 4/set	1440904	1	1	
†‡	Rubber bands, # 33	180-7541	50	50	
†	Screens, large mesh, 15 cm square	191-5913	1	8	
	Spoons, 5 mL	192-4229	8	8	
	Spoons, plastic	192-3591	10	10	
	Tape, transparent	040488	1	1	
	Thermometers, Celsius	201-1327	1	2	
	FOSS Trays, clear plastic	200-5080	1	8	
	Tray columns, plastic tube	200-5112	1	16	
(1)	Vials, with caps, 12 dram	220-0824	1	10	
†	Zip bags, 1 L	021-1353	25	100	
•Living Materials*					
	Live Organism Coupons—set of 6 (consists of the following which may be purchased separately)	1459533	1		
	–Live Organism Coupon, 75 pillbugs and 75 sowbugs	1583890	1		
	–Live Organism Coupon, 200 mealworms	270-4085	1		
	–Live Organism Coupon, 12 pond snails	270-2259	1		
	–Live Organism Coupon, 10 guppies and goldfish	1450931	1		
	–Live Organism Coupon, 6 Elodea sprigs	270-2220	1		
	–Live Organism Coupon, gammarus	1450932	1		
Teacher-Supplied Items					
	Bag, plastic, grocery-style	1284605	1		
	Bottle, 2 liter	020-5017	1		
	Chart paper	030-3478	4		
	Counters (to be used as food markers)	1492206	520		
	Hole punch	160-3777	1		
	Marking pen, whiteboard	1450668	1		
	Paper, drawing, 8 1/2" x 11"	160-0730	30		
	Paper towels, 2-ply	200-1966	1		
	Paper, newsprint, 24" x 36"	161-2929	2		



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A	Description	Item Number	Qty in Repl Pkg	Qty in Orig. Kit	Repl. Pkg Order Qty
Teacher-Supplied Items (continued)					
	Pen, permanent, black	077399	12		
	Push pins	003351	100		
	Safety goggles, child	190-0030	1		
	Scissors, student	084837	1		
	Soil, potting	191-3559	1		
	Stopwatch	190-6410	1		
Teacher-Prepared Items					
	Construction paper, black, pre-cut	1492207	40		
	Container lid, with holes	040-0553-1	1		

The Complete Module—Print Bundle consists of: module equipment, one Teacher Toolkit (print), and 32 Science Resources (student textbooks).	
The Complete Module—Digital Bundle consists of: module equipment, and 7 year license to all module resources digitally on FOSSweb on ThinkLink.	
▪Living Material shipments incur an additional fee of \$12.50 for 1-3 items, \$22.00 for 4-5 items, or \$30.00 for 6+ items. The shipment of certain living materials is restricted by law in a number of states.	
The complete module and refill kit are supplied with enough consumable materials for at least 3 class uses before resupply is required.	
†	This item is included in the Conversion Kit from FOSS® <i>Environments</i> , 2nd Edition.
‡	This item is included in the Conversion Kit from FOSS® <i>Environments</i> , 3rd Edition.
*	Living Materials are not included in the kit and are sold separately.



Grade 4 • EARTH SCIENCE

Soils, Rocks, and Landforms



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	Description	Item Number	Qty in Repl Pkg	Qty in Orig. Kit	Repl. Pkg Order Qty
Core Components					
(1)	Complete Module—Print Bundle	1487664			
(1)	Complete Module—Digital Bundle	1529843			
(1)	Refill Kit (consumable materials for 3 class uses)	1515871			
(1)	Conversion Kit from Soils, Rocks, and Landforms, 3rd Edition	1516496			
(1)	Conversion Kit from Earth Materials, 2nd Edition	1516495			
	FOSS Science Resources Student Book (each)	1487709			
†‡	FOSS Science Resources Student Book (pack of 16)	1487619			
Consumable Equipment					
†‡	Clay, ceramic	031-9440	1	1	
†	Clay, powdered, gray	032-3168	1	1	
†	Cotton swabs	030-7295	100	100	
†‡	Cups, paper, 3 oz.	031-3686	1	100	
†	Food coloring, 4 colors/set	060-1325	1	1	
† (1)	Gravel	070-7057	1	1	
† (1)	Pebbles, small	1595433	1	2	
†‡	Sand, mountain stream	1595429	1	1	
†	Self-stick notes	120-2475	100	500	
†	Soil, potting	191-3559	1	1	
Permanent Equipment					
†	Basins	040-0564	1	8	
†	Beaker, 100 mL	030-6448	1	1	
†	Cards, Rapid Changes, 16 cards/set	1358831	1	2	
†	Clay, powdered, (for stream table)	030-4920	1	3	
	Containers, 1/2 L	030-6426-0	1	9	
†	Containers, with lids, 1 L	030-6767	4	8	
†	Cups, plastic, 250 mL (9 oz.)	031-9868	1	50	
†	Evaporation dishes	120-9956	32	64	
†‡	Foam-mountain sets with dowel	191-1491	1	8	
†	Jars, plastic, with lids, 1/2 L	100-0450	1	8	
†‡	Map, Mount Shasta	130-4324	1	8	
	Meter tapes	200-9743	1	8	
(1)	Minerals, calcite, large	180-2987	5	5	
†	Paper plates	1364369	9	100	
†	Pitcher	160-2413	1	1	
†‡	Poster, Mount Shasta	160-5669	1	1	
†‡	Poster, Mount St. Helens	1515860	1	1	
†	Poster, FOSS Outdoor Safety	1358828	1	1	
†	Poster, FOSS Science Safety	1358827	1	1	
†‡	Posters, FOSS Conservation, set of 4	1443969	1	1	
	Posters, FOSS Sensemaking, set of 3	2013012	1		
(1)	Rocks, basalt, small	180-5660	10	10	
† (1)	Rocks, conglomerate	1411638	40	40	
† (1)	Rocks, granite, gray	077-8928	40	40	
(1)	Rocks, limestone, small	1411645	30	30	
(1)	Rocks, marble, small	180-1095	5	10	
‡ (1)	Rocks, sandstone, banded	586627	10	20	
(1)	Rocks, sandstone, gray	180-1216	5	10	
†	Rulers, 30 cm	181-0233	8	8	
†	Sand, fine, (for stream table)	1595431	1	9	
†‡ (1)	Shells	1515405	50	50	

Continues on next page



Grade 4 • EARTH SCIENCE

Soils, Rocks, and Landforms



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	Description	Item Number	Qty in Repl Pkg	Qty in Orig. Kit	Repl. Pkg Order Qty
Permanent Equipment (continued)					
†	Spoons, metal	200-0668	1	10	
†	Stream tables (tray, plastic)	1412098	1	8	
	Syringes, 50 mL	190-9731	1	8	
†	Tape, duct	200-0261	1	1	
†‡	Transparencies, Mount Shasta, set of 8	1515861	1	1	
	FOSS Trays, clear plastic	200-5080	1	8	
†	Trowel	1386539	1	1	
†	Vial holder	222-0195	1	1	
(1)	Vials, 12 dram, with caps	220-0824	1	40	
†	Water sources, flood, 1/2 L	230-2365	8	8	
†	Water sources, standard, 1/2 L	230-2376	8	8	
†	Wood angles	010-2530	1	16	
	Zip bags, 1 L	021-1353	25	25	
Teacher-Supplied Items					
(1)	Bag, plastic, grocery-type	1284605	1		
(1)	Bottle, 2 L	020-5017	1		
	Bucket, (5 qt.) with lid	009-1893	1		
	Cardboard box (4"x4"x4")	020-5182	1		
	Chart paper	030-3478	4		
	Dustpan, mini	040-3589	1		
	Goggles, safety, child size	190-0030	1		
	Index cards	088708	100		
	Marker, permanent, assorted colors	002133	8		
	Marking pen, permanent, black	077399	12		
	Marking pen, wet-erase	1371749	8		
	Paper, newsprint, 24" x 36"	161-2929	2		
	Paper towels, roll	200-1966	1		
	Pencils, colored	160-1456	12		
	Pencils with erasers	161-0014	16		
	Plaster of Paris	161-4942	1		
	Rubber gloves	181-1215	100		
	String	191-1469	1		
	Tape, transparent	040488	1		
	Vinegar, white	220-0615	1		
	Zip bags, 4 L	021-5005	10		
Teacher-Prepared Items					
	Plaster of Paris	160-2589	1		

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† This item is included in the Conversion Kit from FOSS® *Earth Materials*, 2nd Edition.

‡ This item is included in the Conversion Kit from FOSS® *Soils, Rocks, and Landforms*, 3rd Edition.