

Air and Weather Grades 1–2 FOSS 3rd Edition

Qty. in Kit	Part Number	Description	Qty in repl. pkg	# Pkgs 2 Classes	# Pkgs 3 Classes	# Pkgs 4 Classes
Permanent Equipment						
50	023-2781	Balls, plastic foam, 2.5 cm (1")	50	0	0	1
2	160-9530	Class calendars	1	0	1	2
2	1015596	Cut-and-stick Moon sets, 35/set	1	0	1	2
80	060-3646	Feathers	80	0	1	1
Consumable Equipment						
100	214	Balloons, oblong	100	0	1	1
100	021-8745	Balloons, round	100	0	1	1
100	030-7262	Cotton balls	100	0	1	1
2	1320680	Crepe paper, rolls, blue	1	0	1	2
420	040-2247	Dots, adhesive, 2 cm (3/4")	420	0	1	2
1	060-2425	Fishing line, roll, 10-lb test	1	0	0	1
100	030-2433	Index cards, unlined	100	0	1	1
100	191-6562	Straws, flexible	100	0	1	1
250	191-7519	Straws, jumbo	250	0	1	1
100	191-4604	Straws, superjumbo	50	0	1	2
2	191-4582	String, balls, 300 m (320 yd.) per ball	1	0	1	2
1	200-4618	Tape, duct, roll, 3 m (10')/roll	1	0	0	1
4	200-4640	Tape, transparent, rolls, 16 m (650")/roll	1	0	1	2
75	021-1353	Zip bags, 1-liter (1qt.)	25	0	2	3
1	060-6250	Food coloring, bottle, green	1	0	1	1
Refill Kit (2 class uses of all consumable materials)						
	140-9931	Refill Kit – Air and Weather		0	1	1

Teacher Supplied Materials (Numbers indicated are per class)

For all investigations

- Chart paper and marking pens
- Drawing utensils (pencils, crayons, colored pencils, marking pens)
- Glue sticks
- Projection system
- Science notebooks (composition books)

Outdoor investigations

- 1 Bag for carrying materials
- 32 Clipboards (optional)
- Pencils
- 1 Whistle or bell

Investigation 1: Exploring Air

- 4 Chairs
- 1 Fork, metal
- 1 Marking pen, permanent, black
- 40 Paper napkins, 15 cm (6") square folded
- Paper towels
- 1 Pitcher or other wide-mouth container
- 1 Scissors
- Scratch paper
- Water

Investigation 2: Observing Weather

- Art paper or construction paper, fadeless, several small pieces of each color: orange, yellow, green, blue, purple
- 2 Buckets (optional)
- 32 Construction paper, pieces, red, 4 x 17 cm (1.5" x 7")
- 32 Construction paper, pieces, red, 2 x 6.5 cm (1" x 2.5")
- 5 Cups of envelopes
- 1 Marking pen, permanent, black
- 1 Ruler
- 32 Scissors
- Water (warm and cold)

Investigation 3: Bits and Pieces

- 1 15-bean soup mix (optional)
- 5 Books (large) or pieces of cardboard
- 32 Bottles, drinking-water, plastic, with caps, recycled, 1/2 L
- 1 Broom and dustpan
- Construction paper (optional)
- Glue (optional)
- 1 Scissors (optional)
- Water

Investigation 4: Wind Explorations

- 2 Bottles, plastic, soft-drink, 2 L
- Cardboard or poster board, lightweight 56 x 71 cm (22" x 28")
- 1 Compass, magnetic (optional)
- Crayons or markers
- 1 Fan or hair dryer, variable speed
- Light corn syrup or glycerin, 30 mL (6 tsp.) (optional)
- Liquid dishwashing detergent, 225 mL (1 cup)
- 1 Marking pen, permanent, black
- 1 Measuring cup
- 1 Measuring teaspoon
- Paper towels
- 1 Ruler
- 32 Scissors
- 1 Tub
- Water

Investigation 5: Looking for Change

- Construction paper, strips, blue, 4.5 cm (1.75") wide
- 6 Cups or envelopes
- Local newspaper, weather page
- 32 Scissors
- 1 Tack or pushpin

Animals Two by Two Kindergarten FOSS 3rd Edition

Qty. in Kit	Part Number	Description	Qty in repl. pkg	# Pkgs 2 Classes	# Pkgs 3 Classes	# Pkgs 4 Classes
Permanent Equipment						
1	120-2475	Self-stick notes, pad, 100/pad	1	0	1	1
5	100-0570	Jars, plastic, with screw lids with holes, 2L	1	10	15	20
Consumable Equipment						
1	191-7134	Seeds, ryegrass, package, 4 oz.	1	1	2	2
1	191-3559	Soil, bag, 2 kg/bag	1	2	3	4
Refill Kit (2 class uses of all consumable materials)						
	144-9992	Refill Kit – Animals Two by Two		0	1	1

Live Organisms* ** (not included in kit)

Qty. per Organism Card	Part Number	Description	# Pkgs 1 Class	# Pkgs 2 Classes	# Pkgs 3 Classes	# Pkgs 4 Classes
6 guppies, 2 goldfish, and elodea	1450917	Live Organism Coupon–Goldfish and Guppies	1	1	1	1
12 pond and 12 ramshorn snails	1450923	Live Organism Coupon–Pond and Ramshorn Snails	2	2	2	2
25 pillbugs 25 sowbugs	270-4063	Live Organism Coupon–25 pillbugs, 25 sowbugs	2	2	2	2
150 Redworms	1450925	Live Organism Coupon–Redworms	5	10	15	20
12 Earthworm	1450930	Live Organism Coupon–Earthworms	12	24	36	48

***It is recommended that teachers obtain live organisms from a local source whenever possible.**

****Due to shipping restrictions, land snails *must* be obtained locally or within state boundaries.**

Teacher Supplied Materials (All materials are per class)

All investigations

- Chart paper and marking pens
 - Drawing utensils (pencils, crayons, colored pencils, marking pens)
 - Glue sticks
 - Paper towels
- 1 Pitcher or water container
- Science notebooks (composition books)
- 1 Scissors
- Tape, transparent

Outdoor investigations

- Collecting bags for carrying materials
- Clipboards (optional)

Investigation 1: Goldfish and Guppies

- 1 Bird guide
- 1 Bunch of elodea (*Anacharis*), 6–8 sprigs
- Clipboard
- 1 Computer with Internet access
- 32 Envelopes (optional)
- 2 Goldfish
- 6 Guppies (4 females and 2 males)
- 1 Hole punch
- 1 Paper cutter (optional)
- 1 Projection system
- 10 Scissors
- 1 Piece of scratch paper
- 1 Stapler
- String, 27 m
- 64 Toilet paper tubes (empty)
- 3 Sheets of white paper
- Water, aged or treated

Investigation 2: Water and Land Snails

- Aged or treated water
- 1 Bunch of elodea (*Anacharis*)
- Chalk or egg shells

- 1 Computer with Internet access
- Lettuce or carrot
- 12–15 Land snails (collected locally or within your state)
- 10 Pieces of construction paper
- 1 Projection system
- 24 Water snails (pond snails and ramshorn snails)

Investigation 3: Big and Little Worms

- Flower petals or weeds and leaves
 - Leaf litter
 - Carrot, apple, or lettuce
- 5 Sheets of construction paper or file folders
- 5 Index cards (optional)
- 12 Night crawlers
- Oatmeal
 - Packing tape, clear
 - Paperclips, regular and jumbo
 - Paper towels
 - Pitcher
 - Newspaper (no glossy sheets)
- 150 Redworms
- 8 Small objects, such as blocks, pencils, and centimeter cubes
- Water

Investigation 4: Pill Bugs and Sow Bugs

- Carrot, potato, lettuce
- 1–2 Flat rocks
- 25 Pill bugs
- Leaf litter
 - Paper towels
 - Scissors
- 1 Small garden plant
- 8 Small objects, such as blocks, pencils, and centimeter cubes
- 25 Sow bugs
- 1 Stopwatch or clock
- Tree bark
 - Water

Balance and Motion
Grades 1–2
FOSS 3rd Edition

Qty. in Kit	Part Number	Description	Qty in repl. pkg	# Pkgs 2 Classes	# Pkgs 3 Classes	# Pkgs 4 Classes
Permanent Equipment						
100	031-3686	Cups, paper, 90 mL (3 oz.)	1	0	0	1
100	032-3300	Cups, paper, 150 mL (5oz.)	10	0	0	1
4	200-7499	Drawing tops	1	0	4	4
100	193-6854	Shafts, green, 14.6 cm (5-3/4")	100	0	1	1
40	1354779	Tagboard shapes, 4 shapes/set	40	0	0	1
40	1353334	Wires, aluminum, 45 cm (18")	40	0	0	1
Consumable Equipment						
64	033-4676	Disks, cardboard, 2 holes, 7 cm	32	0	1	2
100	030-2433	Index cards, plain, 3" x 5"	100	0	1	1
600	84472	Paper clips, regular	100	0	3	6
500	180-2041	Rubber bands, #14	500	0	1	1
100	190-6497	Straws, jumbo	50	0	1	2
1	191-4582	String, thin, ball, 185 m (600')	1	0	1	1
2	200-0371	Tape, masking, rolls, 55 m (180') per roll	1	0	1	2
4	200-4640	Tape, transparent, rolls in dispenser	1	0	2	3
Refill Kit (2 class uses of all consumable materials)						
	141-4616	Refill Kit – Balance and Motion		0	1	1

Teacher Supplied Materials **(Numbers indicated are per class)**

For all investigations

- Chart paper and marking pens
- Drawing utensils (pencils, crayons, colored pencils, marking pens)
- Glue sticks
- Projection system
- Science notebooks (composition books)

Outdoor investigations

1 Bag for carrying materials

Investigation 1: Balance

- Cardboard
- 1 Clothesline
- Index cards (optional)
- 1 Pliers (optional)
- 8 Scissors

Investigation 2: Spinners

- Card stock (optional)
- Felt-tip pens
- 1 Jump rope or other rope
- 32 Ropes or cords (optional)
- 32 Scissors

Investigation 3: Rollers

- 4 Balls of different sizes
- 8 Empty water or soft-drink bottles, plastic, 1–2 L
- 1 Piece of chalk
- 50 Pennies

Investigation 4: Back and Forth

- 1 Musical instrument (optional)
- Paper towels
- 1 Penny
- 1 Scissors
- 1 Table (optional)
- 1 Timer or watch

Investigation 5: Magnets and Tools

- 1 Chair with steel legs

Insects and Plants
Grades 1–2
FOSS 3rd Edition

Qty. in Kit	Part Number	Description	Qty in repl. pkg	# Pkgs 2 Classes	# Pkgs 3 Classes	# Pkgs 4 Classes
Permanent Equipment						
2	023-2803	Basins, clear plastic, 6-liter	1	2	4	6
3	160-9530	Class calendars	1	3	6	9
50	031-0419	Cups, plastic, 250 mL (9oz.)	25	0	2	2
20	120-5731	Cup lids, plastic	10	0	2	2
35	160-2798	Paper plates	35	0	1	1
24	021-8778	Plastic bags, 15 x 7.5 x 38 cm	24	0	1	1
60	221-4123	Vials, 12 dram with caps	20	3	6	9
25	021-1353	Zip bags, 1-liter	25	1	2	3
1	1430642	Butterfly cage	1	1	2	3
1	023-3133	Butterfly cage vial holder	1	1	2	3
50	034-2733	Cups, plastic planter, with 2 holes, 90 mL (3 oz.)	50	0	1	1
2	021-8350	2 Lamp bulbs, fluorescent, cool, 45 cm (18")	1	2	4	6
1	120-3960	Lamp fixture for 2 bulbs, with chains	1	1	2	3
1	120-3993	Lamp frame made from PVC pipe, 20 pieces	1	1	2	3
16	1390291	Marker flags	1	0	0	0
1	1012342	Tray, planter	1	1	2	3
20	220-0437	Vials, 7 dram with caps	10	2	4	6
Consumable Equipment						
100	030-7262	Cotton balls	100	0	1	1
147	120-8107	Labels, removable	147	0	1	1
20	1379548	Netting pieces, 10 x 10 cm (4" x 4")	20	0	1	1
1	161-7670	Plant fertilizer, liquid, bottle, 118 mL (4 oz.)	1	0	1	1
100	180-4450	Rubber bands, #14	100	0	1	1
1	191-7156	Seed package, Brassica rapa, 200/pkg	1	0	1	1
1	190-1338	Seed packages, marigolds, 155/pkg	1	0	1	1
50	190-6497	Straws, jumbo	50	0	1	1
100	191-4604	Straws, superjumbo	50	0	1	1
1	193-6614	Sunflower seeds, shelled, bag, 200 g/bag	1	0	1	1
16	220-0824	Vials, 12 dram with caps	1	0	1	1
40	022-5521	Zip bags, 4-liter	40	0	1	1
Refill Kit (2 class uses of all consumable materials)						
	143-5169	Refill Kit – Insects and Plants		0	1	1

Live Organisms*
(not included in kit)

Qty. per Organism Card	Part Number	Description	# Pkgs 1 Class	# Pkgs 2 Classes	# Pkgs 3 Classes	# Pkgs 4 Classes
	1459532	Live Organism Coupon - Set of 4	1	2	3	4
200	270-4085	Live Organism Coupon - 200 mealworms	1	2	3	4
75	270-4107	Live Organism Coupon - 75 Milkweed Eggs	1	2	3	4
50	270-4118	Live Organism Coupon - 50 Silkworm Eggs	1	2	3	4
5	270-4129	Live Organism Coupon - 5 Painted Lady Larvae	2	4	6	8

***It is recommended that teachers obtain live organisms from a local source whenever possible.**

Teacher Supplied Materials (Numbers indicated are per class)

All investigations

- Chart paper and marking pens
- Drawing utensils (pencils, crayons, colored pencils, marking pens)
- Glue sticks
- 1 Overhead-transparency pen
- 1 Projection system
- Science notebooks (composition books)
- 32 Scissors
- Transparent tape

Outdoor investigations

- 1 Bag for carrying materials
- 1 Camera (optional)
- 1 Whistle or bell

Investigation 1: Mealworms

- Apple, sweet potato, carrot, or potato
- 8 Small boxes or berry baskets (optional)
- 200 Mealworms
- 1 Paring knife
- Wheat bran

Investigation 2: Brassica Sees

- 1 Computer with Internet access
- Cotton swabs (optional)
- Extension cord (optional)
- Graph paper (optional)
- 8–16 Marigold seedlings
- 1 Marking pen, permanent (optional)
- Newspaper
- Paper towels
- 2–4 Pitchers or recycled soft-drink bottles (2 L) or gallon jugs)
- 1–2 Planter pots (optional)
- 1 Plastic bag, about 4 L
- 1 Potting soil, 4 L (4 qt.)
- Rulers
- String (optional)
- Water

Investigation 3: Milkweed Bugs

- 75 Milkweed bug eggs

- Paper, light-colored (optional)
- 8 Paper clips, jumbo
- Paper towels
- 1 Pitcher or recycled soft-drink bottle, 2 L
- String (optional)
- Water
- 1 White paper, large sheet
- 8 White paper, recycled, 8.5" x 11" (optional)

Investigation 4: Silkworms

- 1 Flat box or lid, large
- 8 Card stock pieces, 8.5" x 11" (optional)
- 1 Corrugated box or clear plastic box, medium-sized
- 2 Egg cartons, paper
- 1 Leaf, damaged by insect
- Mulberry leaves
- 1 Paper towel
- 1 Plastic bag to fit over shoe box
- 1 Shoe box or other small cardboard box
- 50 Silkworm eggs
- 2 White paper, large sheets
- Zip bag, 1 L

Investigation 5: Butterflies

- 1 Camera (optional)
- 1 Computer with Internet access
- 2 Construction paper pieces, 1 red or orange and 1 any color
- 1 Flower
- 1 Mallow plant or fresh mallow leaves (optional)
- 1 Marking pen, permanent
- 1 Measuring spoon, 1.25 mL (1/4 tsp.)
- Microscopes (optional)
- 1 Orange, fresh (optional)
- 5–10 Painted lady butterfly larvae in medium
- Paper towels
- 1 Paring knife (optional)
- 1 Projection system
- 8 Scratch paper, quarter sheets
- Sugar
- Water

Materials in Our World
Kindergarten
FOSS 3rd Edition

Qty. in Kit	Part Number	Description	Qty in repl. pkg	# Pkgs 2 Classes	# Pkgs 3 Classes	# Pkgs 4 Classes
Permanent Equipment						
70	160-2798	Plates, paper	35	0	1	2
2	120-2475	Self-stick notes, pads, 100/pad	1	0	1	2
Consumable Equipment						
5	192-3712	Sandpaper, sheets, coarse	5	0	1	1
2	191-7112	Sawdust, bags	1	0	1	2
1000	030-7482	Sticks, craft	1000	0	1	1
200	230-6157	Wood pieces, thin, 1/16" x 3/4" x 2.5"	200	0	1	1
36	230-3509	Wood samples, basswood, for sanding	36	0	1	1
2	230-3553	Wood shavings, bags	1	0	1	2
75	031-9538	Fabric squares, burlap, red, 4 cm (1.5")	75	0	1	1
75	031-9560	Fabric squares, muslin, 50%–100% cotton, 15 cm (6")	75	0	1	1
75	031-9550	Fabric squares, wool plaid, 4 cm (1.5")	75	0	1	1
200	030-2433	Index cards	100	0	1	2
75	033-5996	Paper samples, cardboard, 10 cm square (4")	75	0	1	1
75	033-5985	Paper samples, chipboard, 10 cm square (4")	75	0	1	1
75	162-0550	Paper samples, corrugated, 10 cm square (4")	75	0	1	1
75	162-0560	Paper samples, kraft, 10 cm square (4")	75	0	1	1
75	162-0571	Paper samples, newsprint, 10 cm square (4")	75	0	1	1
75	201-6450	Paper samples, tagboard, 10 cm square (4")	75	0	1	1
1	160-0972	Waxed paper, roll	1	0	1	1
Refill Kit (2 class uses of all consumable materials)						
	140-2675	Refill Kit – Materials in Our World		0	1	1

Teacher Supplied Materials (Numbers indicated are per class)

For most investigations

- Chart paper and marking pens
- Drawing utensils (pencils, crayons, colored pencils, marking pens)
- Glue sticks
- Glue, white
- Newspaper
- Paper towels
- 1 Pitcher or empty 2 L soft-drink bottle
- Science notebooks (composition books)
- 1 Scissors
- Water

Outdoor investigations

- Collecting bags for carrying materials
- Clipboards (optional)

Investigation 1: Getting to Know Wood

- 1 Turkey baster (optional)

Investigation 2: Changing Wood

- Container, large zip bag, or jar
- Cornstarch, 1 or 2 boxes
- 1 Plane (optional)
- Safety goggles
- Saucepan
- 1 Saw (optional)
- Scratch paper
- 1 Spoon, long handled
- 2 Spoons, plastic
- 32 Sticks, about 20 x 1 cm (8" x 0.5")

Investigation 3: Getting to Know Paper

- 1 Clothesline and clothespins (optional)
- Construction paper, white
- Facial tissue, white
- Flour, 3/4–1 L (3–4 cups)
- Newsprint (plain) or brown paper towels (from school)
- 1 Paper, white, sheet, 22 x 28 cm (8.5" x 11")
- 1 Screwdriver or mat knife
- 1 Spoon, large, with long handle
- 1 Tissue paper, roll, single ply
- Packing tape, clear

Investigation 4: Getting to Know Fabric

- 1 Box cutter
- 5 Cardboard boxes or brown-paper grocery bags
- Clothesline or clothespins (optional)
- 2 Contact paper (optional)
- Liquid laundry detergent or dish soap, 3/4 L (3 cups)
- Staining materials (mustard, ketchup, tempera paint, grape juice)
- 1 Stapler (optional)

Investigation 5: Earth Materials

- 1 Balance (optional)
- Fabric scraps, small
- Garden trowel (optional)
- Ice chest or cooler (optional)
- Mat-board scraps (optional)
- Paper plates or white construction paper, 28 x 45 cm (11" x 18")
- Paper scraps
- Materials for recycling center (empty plastic bottles, steel cans, aluminum cans, newspapers, cardboard boxes, scrap wood, fabric scraps, clean rags)
- Soil
- Towel, cloth
- Wood scraps, small

Plants and Animals
Grades 1–2
FOSS 3rd Edition

Qty. in Kit	Part Number	Description	Qty in repl. pkg	# Pkgs 2 Classes	# Pkgs 3 Classes	# Pkgs 4 Classes
Permanent Equipment						
8	023-2803	Basins, clear plastic, 6-liter	1	8	16	24
8	120-5710	Basin covers	1	8	16	24
2	160-9530	Calendars	1	2	4	6
50	120-3950	Cup lids, plastic, with 2 holes	50	1	2	3
50	021-1353	Zip bags, 1-liter	25	0	2	0
25	021-8525	Containers, plastic, 1/2-liter	1	25	50	75
50	031-0419	Cups, plastic, 250 mL (9 oz.)	25	2	4	6
8	031-4577	Cups, plastic, 500 mL (16 oz.)	1	8	16	24
1	160-9200	Bottle of plant fertilizer, liquid, 118 mL (4 oz.)	1	0	1	1
100	190-5947	Tongue depressors	100	0	1	1
2	1012342	Trays, planter	1	2	4	6
Consumable Equipment						
100	030-7262	Cotton balls	100	0	1	1
100	033-4632	Cups, plastic planter, with 2 holes, 90 mL (3 oz.)	100	0	1	1
504	120-1606	Labels, white, removable	252	0	1	1
10	230-3564	Paper towels, extra absorbent	10	0	1	1
1	191-7167	Seeds, alfalfa, package, 4 oz./pkg	1	0	1	1
1	191-7123	Seeds, oat, package, 2 oz./pkg	1	0	1	1
1	191-7134	Seeds, ryegrass, package, 4 oz./pkg	1	0	1	1
1	191-7145	Seeds, wheat, package, 2 oz./pkg	1	0	1	1
1	120-5478	Self-stick notes, pad, 8 x 8 cm (3" x 3"), 100/pad	1	0	1	1
500	191-7519	Straws, clear, jumbo	250	0	1	2
1	220-0043	Bag of vermiculite, 8 L (8 qt.)/bag	1	0	1	1
Refill Kit (2 class uses of all consumable materials)						
	144-5366	Refill Kit – Plants and Animals		0	1	1

**Live Organisms*
(not included in kit)**

Qty. per Organism Card	Part Number	Description	# Pkgs 1 Class	# Pkgs 2 Classes	# Pkgs 3 Classes	# Pkgs 4 Classes
25 pillbugs 25 sowbugs	270-4063	Live Organism Coupon, 25 pillbugs, 25 sowbugs	1	2	3	4

***It is recommended that teachers obtain live organisms from a local source whenever possible.**

Teacher Supplied Materials (Numbers indicated are per class)

All investigations

- Chart paper and marking pens
- Drawing utensils (pencils, crayons, colored pencils, marking pens)
- Glue sticks
- 1 Marking pen, wet-erase
- Newspaper
- Paper towels
- 1 Projection system
- Science notebooks (composition books)

Outdoor investigations

- 1 Bag for carrying materials
- 1 Camera (optional)
- 1 Whistle or bell

Investigation 1: Grass and Grain Seeds

- 1 Computer with Internet access
- 4 Pieces of construction paper, 2 brown, 2 green
- 32 Paper cups or plastic bags (optional)
- White glue
- 1 Metric ruler
- 1 Paper cutter (optional)
- Potting soil, 4 L (4 qt.)
- 8 Scissors
- Transparent tape
- 1 Weed and leaf from schoolyard
- 1 Sheet of white paper
- 1 Piece of scratch paper
- Water

Investigation 2: Stems

- Bottled water (optional)
- Drawing paper
- 2 Flowerpots, plastic, 15–20 cm, with coaster
- 1 Flowerpot, large (optional)
- 1 Paring knife
- Paint (optional)
- 1 Pitcher or recycled soft-drink bottle, 2 L
- Plants for cuttings
- 1 Plastic bag, large
- Plastic bags, small (optional)
- 8 Potatoes, small, white
- 16 Scissors
- Potting soil, 6 L (6 qt.)

Investigation 3: Terrariums

- 1 Computer with Internet access
- Food for animals (apple, carrot, lettuce)
- 20 Index cards (optional)
- Isopods (optional)
- Pasta, large, uncooked, two varieties, such as large elbow macaroni and rotini, about 200
- 1 Pitcher or recycled soft-drink bottle, 2L
- Potting soil, 8 L (8 qt.)
- 8 Teaspoons, plastic
- 1 Timer or stopwatch
- 1 Whiteboard, portable (optional)
- Water

Investigation 4: Growth and Change

- Bottled water (optional)
- 34 Bulbs, onion or garlic
- 2 Paring knives
- Paint (optional)
- 40 Plastic bags, small (optional)
- 16 Roots (carrots, radishes) to plant
- Rulers (optional)
- 1 Scissors
- 1 Transparent tape
- 16 Sheets of white paper

Pebbles, Sand, and Silt
Grades 1–2
FOSS 3rd Edition

Qty. in Kit	Part Number	Description	Qty in repl. pkg	# Pkgs 2 Classes	# Pkgs 3 Classes	# Pkgs 4 Classes
<i>Permanent Equipment</i>						
16	131-6834	Aluminum mini loaf pans	1	0	4	6
36	161-7626	Construction paper sheets, black	36	0	0	1
70	160-2798	Paper plates, white	35	0	0	1
5	192-3712	Sandpaper sheets, coars, #50	5	0	0	1
5	192-3701	Sandpaper sheets, fine, #150	5	0	0	1
5	190-0381	Sandpaper sheets, medium, #80	5	0	0	1
1	192-0775	Sand, unwashed, with silt, bag, 2.3 kg/bag	1	1	2	3
<i>Consumable Equipment</i>						
4	120-5709	Self-stick notes, pads, 100/pad	4	0	1	1
1	031-9440	Clay, potter's clay, bag, 2.3 kg/bag	1	0	1	1
1	032-3168	Clay, powdered, bag, 0.45 kg/bag	1	0	1	1
5	190-0337	Sand, clean, bags, 0.91 kg/bag	1	0	3	5
1	191-3559	Potting soil, bag, 1.8 kg/bag	1	0	1	1
25	1410771	Straws, regular	25	0	1	1
<i>Refill Kit (2 class uses of all consumable materials)</i>						
	141-1807	Refill Kit – Pebbles, Sand, and Silt		0	1	1

Teacher Supplied Materials
(Numbers indicated are per class)

For all investigations

- Chart paper and marking pens
- Drawing utensils (pencils, crayons, colored pencils, marking pens)
- Glue sticks
- Paper towels and/or sponges
- Projection system
- Science notebooks (composition books)
- Water

Outdoor investigations

- 1 Bag for carrying materials
- 32 Clipboards
- Containers for water (plastic gallon jugs, 2 L recycled soda bottles, bucket)
- Pencils
- 1 Whistle or bell

Investigation 1: First Rocks

- Egg cartons (optional)
- 16 Pieces of white paper

Investigation 2: River Rocks

- 1 Large knife
- 32 Sheet protectors, clear (optional)
- Transparent tape

Investigation 3: Using Rocks

- Clear acrylic spray (optional)
- 1 Brick
- 1 Bucket
- 1 Camera (optional)
- Clay soil, 8 L
- 1 Container or jar with lid, 1 L
- Containers for water
- 1 Box of cornstarch, 454 g (1 lb.)
- White glue
- Dry grass, straw, or weeds
- 1 Large knife
- Newspaper
- 32 Paint brushes
- Poster paints
- 1 Sandstone piece, landscaping (optional)
- 1 Saucepan
- 1 Scissors
- Scratch paper
- 1 Mixing spoon
- 1 Plastic tablecloth or place mats (optional)
- Tempera paints
- 1 Old hand towel (optional)
- 1 Trowel or shovel
- 16 Pieces of white paper
- Yarn, 25 yards

Investigation 4: Soil and Water

- 1 Bucket
- Scratch paper
- Transparent tape
- White paper (optional)

Solids and Liquids
Grades 1–2
FOSS 3rd Edition

Qty. in Kit	Part Number	Description	Qty in repl. pkg	# Pkgs 2 Classes	# Pkgs 3 Classes	# Pkgs 4 Classes
<i>Permanent Equipment</i>						
100	032-6919	Cardboard pieces, 7.5 cm (3") square	100	0	0	1
1	033-4720	Cornmeal, container, 350 g (12.5 oz.)	1	0	1	1
1	120-8129	Lima beans, container, 350 g (12.5 oz.)	1	0	1	1
1	131-2045	Mung beans, container, 350 g (12.5 oz.)	1	0	1	1
100	190-5914	Sticks, craft	50	0	0	1
100	190-6497	Straws, jumbo	50	0	0	1
<i>Consumable Equipment</i>						
2	010-1397	Aluminum foil, rolls	1	0	1	1
100	031-8010	Cups, paper, 150 mL (5oz.)	100	0	0	1
1	060-1325	Food coloring, set, 4 colors/set	1	0	0	1
30	031-7987	Mints, hard	30	0	1	1
1	161-9317	Pinto beans, container, 350 g (12.5 oz.)	1	0	1	1
1	181-0691	Rice, container, 350 g (12.5 oz.)	1	0	1	1
1	180-4440	Rock salt, container, 454 g (1 lb.)	1	0	1	1
2	160-8155	Self-stick notes, small, pad, 200/pkg	2	0	1	1
1	200-6905	Toothpaste/tube	1	0	1	1
100	021-1353	Zip bags, 1 L (1 qt.)	25	0	2	4
<i>Refill Kit (2 class uses of all consumable materials)</i>						
	140-2674	Refill Kit – Solids and Liquids		0	1	1

Teacher Supplied Materials (Numbers indicated are per class)

For all investigations

- Chart paper and marking pens
- Drawing utensils (pencils, crayons, colored pencils, marking pens)
- Glue sticks
- Glue, white
- Projection system
- Science notebooks (composition books)

Outdoor investigations

- 1 Bag for carrying materials
- 32 Bottles, drinking-water, plastic, with caps, recycled, 1/2 L
- 32 Clipboards
- Containers for water (plastic gallon jug, 2 L soft drink bottles, bucket)
- Newspapers
- Pencils
- 1 Whistle or bell

Investigation 1: Solids

- 1 Paper bag or box
- 1 Rock, wood block, or other solid object
- 1 Twig
- Water

Investigation 2: Liquids

- 5 Books (large) or pieces of cardboard
- 2 Bottles, drinking-water, plastic, with caps, recycled, 1/2 L
- Chart paper for collages (optional)
- Cooking Oil, 1/2 L (1 pt.)
- Corn syrup, clear, colorless, 1/2 L (1 pt.)
- Liquid dish soap (detergent), blue or green, 1/2 L (1 pt.)
- Liquid fabric softener or starch, 1/2 L (1 pt.)
- Liquid hand soap, white, 1/2 L (1 pt.)
- Magazines (optional)
- Paper towels
- 32 Scissors
- Tape, transparent
- Water

Investigation 3: Bits and Pieces

- 1 15-bean soup mix (optional)
- 5 Books (large) or pieces of cardboard
- 32 Bottles, drinking-water, plastic, with caps, recycled, 1/2 L
- 1 Broom and dustpan
- Construction paper (optional)
- Glue (optional)
- 1 Scissors (optional)
- Water

Investigation 4: Solids, Liquids, and Water

- 1 Bottle, plastic, 4 L (1 gal.), (optional)
- 6 Chalk pieces
- 10 Chocolate chips
- 6 Cookies (small)
- Cooking oil, about 250 mL (8.5 oz.)
- Corn syrup, about 250 mL (8.5 oz.)
- 1 Freezer
- 1 Glass (optional)
- 10 Ice cubes (small) or chunks
- Liquid dish soap, about 250 mL (8.5 oz.)
- Liquid fabric softener or starch, about 250 mL (8.5 oz.)
- Liquid hand soap, about 250 mL (8.5 oz.)
- Margarine, stick, 15 mL, (1 Tbsp.)
- Paper towels
- Raisins (6 spoonfuls)
- Scissors
- Scratch paper
- Tape, transparent
- 1 Tea bag (optional)
- Vacuum bottles or insulated chest
- Water (room temperature and hot water)
- 1 Writing paper, sheet

**Trees and Weather
Kindergarten
1325206**

Qty. in Kit	Part Number	Description	Qty in repl. pkg	# Pkgs 2 Classes	# Pkgs 3 Classes	# Pkgs 4 Classes
<i>Permanent Equipment</i>						
3	160-9530	Calendars, laminated	1	0	0	1
<i>Consumable Equipment</i>						
3	1320680	Crepe paper, rolls, blue	1	0	2	3
2	160-8155	Self-stick notes, pads, 100/pad	2	0	1	1
1	191-1469	String, ball, 30 m (100')	1	0	1	1
1	250-0189	Yarn skein, yellow, 55m (60 yd)	1	0	1	1
100	021-1353	Zip bags, 1 L (1 qt.)	25	0	2	4
<i>Refill Kit (2 class uses of all consumable materials)</i>						
	140-9930	Refill Kit – Trees and Weather		0	1	1

Teacher Supplied Materials (Numbers indicated are per class)

For most investigations

- 1 Camera
- Chart paper and marking pens
- Drawing utensils (pencils, crayons, colored pencils, marking pens)
- Glue sticks
- Glue, white
- Paper, white
- 1 Pen, marking, permanent, black
- Science notebooks (composition books)
- 1 Scissors
- Tape, transparent

Outdoor investigations

- Collecting bags for carrying materials
- Clipboards (optional)

Investigation 1: Observing Trees

- 2 Cardboard pieces, 31 x 46 cm (12.25" x 18.25")
- 1 Clipboard
- 20 Paper, construction, pieces, different colors, 30 x 45 cm (12" x 18")
- Paper, contact
- Phone books or catalogs
- Planting tools (shovel, hose, bucket)
- 1 Tree in a container
- Water
- Yarn, cord, or ribbon

Investigation 2: Observing Leaves

- 2–3 Basins or boxes for leaves
- 1 Cardboard box, small, or shopping bag
- 1 Felt board
- Leaves from trees
- 16 Paper, white, pieces
- 5 Sheet protectors, clear-plastic (optional)

Investigation 3: Observing Weather

- 2 Basins
- 5–6 Cups or envelopes
- Paper, construction, fadeless: orange, yellow green, blue, purple
- Paper, construction, pieces, 10 x 23 cm (4" x 9")
- 1 Pen, watercolor or overhead transparency
- Tape, masking
- 1 Ruler
- Water, warm and cold

Investigation 4: Trees through the Seasons

- 32 Bark photos
- Bottles, soft-drink, 2 L
- Evergreen leaves, needles, and scales
- Fruits, edible
- Gravel or pebbles
- 1 Knife, sharp
- 1 Laminator (optional)
- 8 Paper, drawing, pieces, 11 x 14 cm (4.25" x 5.5")
- Paper towels
- 1 Bag of seeds, plastic, 1 L
- 1 Pruning shears (optional)
- Twigs
- Water