

## FOSS CA AIR AND WEATHER MODULE

### Quantities for Multiple-Class Use

#### ADDITIONAL MATERIALS

There are enough consumable materials in the Water kit for use with TWO classes of UP TO 32 students on the same day. To insure that each class has the same experiences, you may need to purchase the additional materials in the quantities listed in the table below.

#### [ORDERING INFORMATION](#)

The suggested materials can be ordered from [Delta Education](#).

ITEM	Delta Part #	Quantity in package	2 classes	3 classes	4 classes
Balloons, oblong, green*	021-8734	100	0	50	100
Balloons, round #7, blue*	021-8745	100	0	50	100
Calendar, class, laminated	160-9530	1	0	2	4
Cotton balls*	030-7262	100	0	50	100
Crepe paper sheet, 225 x 50 cm, blue*	160-9585	1 pkg	0	2	4
Dots, adhesive, 1/2" diameter, blue*	040-2247	420	0	210	420
Paper clips, jumbo	160-0390	100	0	200	260
Straws, jumbo*	191-7519	250	0	250	500
Straws, super jumbo*	191-4604	50	0	100	200
String, 300 m/ball*	191-4582	1 ball	0	1	2
Tape, transparent, in dispenser, 650"/roll*	200-4640	1 roll	0	4	8
Zip bags, 1-liter (1-qt)*	021-1353	25	0	25	50

\* Consumable item

FOSS CA Air and Weather Module continued

TEACHER-SUPPLIED ITEMS	
<ul style="list-style-type: none"><li>• Chart paper</li><li>• Construction paper</li><li>• Fork, metal</li><li>• Stopwatch or watch with second hand</li><li>• Compass (optional)</li><li>• Paper cups, 5–6 oz</li><li>• Poster board</li><li>• Weather page from newspaper</li><li>• Buckets (optional)</li><li>• Fan or hair dryer</li><li>• Glue</li><li>• Pencils, crayons</li><li>• Scissors</li><li>• Tubs (optional)</li><li>• Watercolor pen</li></ul>	<ul style="list-style-type: none"><li>• White paper</li><li>• Plastic 2-liter bottle</li><li>• Corn syrup (optional)</li><li>• Dishwashing liquid</li><li>• Marking pens</li><li>• Measuring cup and spoon</li><li>• Paper towels</li><li>• Pitcher</li><li>• Cardboard tubes and scraps</li><li>• Masking tape</li><li>• Paper and paper scraps</li><li>• Paper napkins</li><li>• Plastic bags</li><li>• Toothpicks</li></ul> <p>* Consumable item</p>

OTHER THINGS TO CONSIDER
<ul style="list-style-type: none"><li>• Duplicate student sheets</li></ul>

## FOSS CA ANIMALS TWO BY TWO MODULE

### Quantities for Multiple-Class Use

#### ADDITIONAL MATERIALS

There are enough consumable materials in the **Animals Two By Two** kit for use with TWO classes of UP TO 32 students on the same day. To insure that each class has the same experiences, you may need to purchase the additional materials in the quantities listed in the table below.

#### ORDERING INFORMATION

The suggested materials can be ordered from [Delta Education](#).

Component	Delta Part Number	Quantity in package	2 classes	3 classes	4 classes
Cardboard piece, 10 cm x 30 cm	032-0066	1	0	16	16
Declorinator, 65 ml (2 oz)	030-9902	2 oz	0	2 oz	2 oz
Fish food, dry flakes	060-0500	1 oz	0	1 oz	1 oz
Plastic wrap, clear roll	160-2633	1 roll	0	1 roll	1 roll
Self-stick notes, small, 100/pad	120-2475	100	0	45	60
Soil, potting, 2 kg/bag (4 lb bag)*	191-3559	4 lb	0	3 lb	4 lb

\* Consumable item

#### TEACHER-SUPPLIED ITEMS

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|--|--|
| <ul style="list-style-type: none"> <li>• Aged or treated water</li> <li>• Bunch of Elodea (Anacharis)</li> <li>• Envelopes</li> <li>• Goldfish</li> <li>• Guppies</li> <li>• Paper cutter (optional)</li> <li>• Pencils, crayons, markers</li> <li>• Pitcher or water container</li> <li>• Scissors</li> <li>• Sheets of chart paper</li> <li>• Transparent tape</li> <li>• White paper (optional)</li> <li>• Book about snails (optional)</li> <li>• Book about isopods (optional)</li> <li>• Flat stones</li> <li>• Pill bugs</li> <li>• Sow bugs</li> </ul> | <ul style="list-style-type: none"> <li>• Chart paper</li> <li>• Book about worms (optional)</li> <li>• Leaf litter</li> <li>• Night crawlers</li> <li>• Oatmeal</li> <li>• Redworms</li> <li>• Small objects, such as blocks, pencils, and centimeter cubes</li> <li>• Land snails</li> <li>• Lettuce or carrot or potato</li> <li>• Paper towels</li> <li>• Construction paper</li> <li>• Chalk or egg shells</li> <li>• Aquatic snails</li> <li>• Plant litter</li> <li>• Small garden plant or grass seed</li> <li>• Tree bark</li> </ul> |
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OTHER THINGS TO CONSIDER

- Duplicate student sheets.
- You may want to make extra copies of the Class Calendars.
- The same animals and containers can be used for each class.
- Plan ahead for care and maintenance of animals.

## FOSS CA BALANCE AND MOTION MODULE

### Quantities for Multiple-Class Use

#### ADDITIONAL MATERIALS

There are enough consumable materials in the **Balance and Motion** kit for use with TWO classes of UP TO 32 students on the same day. To insure that each class has the same experiences, you may need to purchase the additional materials in the quantities listed in the table below.

#### ORDERING INFORMATION

The suggested materials can be ordered from [Delta Education](#).

ITEM	Delta Part #	Quantity in package	2 classes	3 classes	4 classes
Index cards, plain, 3" x 5"*	030-2433	100	0	50	100
Paper clips, regular*	161-2654	100	0	100	200
Rubber bands, #14*	180-2041	500	0	250	500
String, thin for zoomers, 185 m (600')*	191-4582	1 ball	0	1 ball	1 ball
Tape, masking 180'/roll*	200-0371	1 roll	0	1 roll	2 rolls

\* Consumable item

#### TEACHER-SUPPLIED ITEMS

- Lightweight cardboard
- Clothesline
- Pencils
- Pliers (optional)
- Crayons or markers
- Jump rope
- Paper
- Scissors
- Pennies
- Tinker Toys™ (optional)
- Marking pens
- Chart paper

\* Consumable item

#### OTHER THINGS TO CONSIDER

- Duplicate student sheets

## FOSS CA INSECTS AND PLANTS MODULE

### Quantities for Multiple-Class Use

#### ADDITIONAL MATERIALS

There are enough consumable materials in the **Insects and Plants** kit for use with TWO classes of UP TO 32 students on the same day. To insure that each class has the same experiences, you may need to purchase the additional materials in the quantities listed in the table below.

#### ORDERING INFORMATION

The suggested materials can be ordered from [Delta Education](#).

Component	Delta Part Number	Quantity in package	2 classes	3 classes	4 classes
Cup lids, plastic	120-4675	36	50	8	16
Cups, plastic planter, w/ 2 holes, 90 ml	033-4632	100	0	50	100
Cups, plastic, 250-ml (9-oz.)	031-0419	25	50	100	150
Containers, plastic, 1/2-liter	031-2168	9	0	32	64
Glycerine, 8 oz./bottle*	070-3856	1 bottle	0	1	1
Plastic bags, 15 x 7.5 x 38 cm	021-8778	24	0	12	24
Seeds, Sunflower, giant stripe, 150 g/bag*	193-1290	1 pkg	0	1	1
Cup lids, plastic, with 2 holes	120-3950	50	0	100	150
Netting, 23 cm X 150 cm	140-1399	1 each	0	1	2
Vials, 12-dram, with caps	220-0824	1	0	75	125
Seeds, Brassica rapa, 200/pkg*	191-7156	1 pkg	0	100	200
Labels, white, removable, 1 x 4.5 cm*	120-1606	252	0	150	300
Lamp bulb, fluorescent cool, 18"	021-8350	1	1	4	6
Lamp fixture, for 2 bulbs	120-3960	1	1	2	3
Lamp frame made from PVC pipe, 20 pieces	120-3993	1	1	2	3
Soil, potting, 4 lb/bag	191-3559	1 bag	0	1 bag	1 bag
Tray, planter, 30 x 45 cm (12" x 18")	101-2342	1	2	4	6
Cotton balls*	030-7262	100	0	50	100
Paper towels, for making wicks*	230-3564	10 sheets	0	5	10
Zip bags, 4-liter (gallon)	022-5521	40/pkg	0	10	20

FOSS California Insects and Plants Module continued

TEACHER-SUPPLIED ITEMS

- Scissors
- Transparent tape
- Marking pens, different colors
- Paper towels
- Apple, sweet potato, or potato\*
- Paring knife
- Spoon
- Mealworms
- White paper
- Wheat bran\*
- Pablum (baby cereal)\*
- Dark paper or paper bag
- Waxworms
- Milkweed bug eggs
- Paper clips, jumbo
- Pins and string
- Twigs
- Boxes, egg cartons, and/or berry baskets
- Mulberry leaves\*
- Overhead-transparency pen
- Cotton swabs (optional)
- Extension cord (optional)
- Graph paper (optional)
- VCR and monitor
- Potting soil\*
- Card stock, pieces (optional)
- Colored pencils (optional)
- Glue
- Plastic lid (optional)
- Plastic bag, abpit 4-liters
- Silkworm eggs
- Painted lady butterfly larvae
- Construction paper
- Measuring spoon, 1/4 tsp
- Sugar\*
- Ants and ant farm
- Aquatic insects and plants
- Containers
- Crickets
- Measuring cup
- Pitcher or soda bottles, 2-liter
- Large bowl
- Duct tape
- Newspaper or tray
- Lamps
- Waxed paper
- Modeling clay
- Yellow crayon
- Chart paper
- Large white paper
- Marking pen, permanent (optional)
- Pencils
- Zip bag, 1-liter (optional)
- Water
- Large flat box or lid
- Rulers, metric
- Fresh orange (optional)
- Mallow plant or leaves (optional)

\* Consumable item

OTHER THINGS TO CONSIDER

- Duplicate student sheets.
- You may want to make extra copies of the Class Calendars.

## FOSS CA PEBBLES, SAND, AND SILT MODULE

### Quantities for Multiple-Class Use

#### ADDITIONAL MATERIALS

There are enough consumable materials in the **Pebbles, Sand, and Silt** kit for use with TWO classes of UP TO 32 students on the same day. To insure that each class has the same experiences, you may need to purchase the additional materials in the quantities listed in the table below.

#### ORDERING INFORMATION

The suggested materials can be ordered from [Delta Education](#).

ITEM	Delta Part #	Quantity in package	2 classes	3 classes	4 classes
Clay, ceramic, gray, 2.3 kg/bag (5 lb.)*	031-9440	1 bag	0	1 bag	1 bag
Clay, dry powdered, .45 kg/bag (1 lb.)*	032-3168	1 bag	0	1 bag	1 bag
Cups, plastic, 250-ml (9-oz.)	031-0419	25	0	25	50
Gravel, 2.3 kg/bag (5 lb.)*	070-7057	1 bag	0	1 bag	1 bag
Labels, Post-it™, 100/pad*	160-8144	5 pads	0	4	8
Paper plates	160-2798	35	0	35	70
Pebbles, small, 2 kg/bag (4 lb.)*	161-2016	1 bag	0	1 bag	1 bag
Rocks, basalt, dark gray	180-4615	72	0	72	72
Rocks, granite, pink, large	180-3251	5	0	10	10
Rocks, scoria, reddish	180-4637	72	0	72	72
Rocks, tuff, yellowish or light-colored	180-4648	72	0	72	72
Sand, unwashed, with silt, 2.3 kg/bag*	192-0775	1 bag	0	1 bag	1 bag
Self-stick notes	120-5709	100/pad	0	4 pads	4 pads
Soil, potting, 2 kg/bag (4 lb.)*	191-3559	1 bag	0	1 bag	1 bag
Vials, 12-dram, with caps	220-0824	1	36	72	108

\* Consumable item



FOSS California Pebbles, Sand, and Silt Module continued

TEACHER-SUPPLIED ITEMS

- Chart paper
- Crayons, marking pens, pencils
- White paper
- Paper towels and sponges
- Pitcher or 2-liter soda bottle
- Glue
- Knife or string
- Paper towels and sponges
- Transparent tape
- Aluminum mini-loaf pans
- Brick (optional)
- Bucket or plastic bag
- Clay soil
- Box of cornstarch
- Dry grass or weeds
- Knife or string
- Newspaper
- Painting supplies
- Sand
- Soda straws
- Trowel
- Colored yarn
- Scratch paper

\* Consumable item

OTHER THINGS TO CONSIDER

- Duplicate student sheets
- Activity 4, Parts 1–4: Use one set of vials for the homemade soil. Then each class needs another set of 18 vials and 18 cups for Studying Local Soil.

## FOSS CA PLANTS AND ANIMALS MODULE

### Quantities for Multiple-Class Use

#### ADDITIONAL MATERIALS

There are enough consumable materials in the **Plants and Animals** kit for use with TWO classes of UP TO 32 students on the same day. To insure that each class has the same experiences, you may need to purchase the additional materials in the quantities listed in the table below.

#### ORDERING INFORMATION

The suggested materials can be ordered from [Delta Education](#).

Component	Delta Part Number	Quantity in package	2 classes	3 classes	4 classes
Containers, plastic, 1/2-liter	030-6426	9	16	32	48
Cotton balls*	030-7262	100	0	50	100
Cup lids, plastic, with 2 holes	120-3950	50	50	100	150
Cups, plastic, 250-ml (9-oz.)	031-0419	25	50	100	150
Cups, plastic, 500-ml (16-oz.)	032-6886	8	8	16	24
Cups, plastic planter, w/ 2 holes, 90-ml	033-4632	140	0	70	140
Labels, white, removable, 1 x 4.5 cm*	120-1606	252	0	150	300
Basin, clear plastic, 6-liter	023-2803	1	2	4	8
Basin cover, plastic	120-5710	1	2	4	8
Containers, plastic, 1/2-liter	030-6426	9	25	50	100
Paper towels, for making wicks*	230-3564	10 sheets	0	5	10
Straws, jumbo	191-7516	250	0	100	140
Tray, planter, 30 x 45 cm (12" x 18")	101-2342	1	2	4	6
Vermiculite, 4-liter (8-qt.)/bag*	220-0043	1 bag	1	1	1

\* Consumable item

FOSS CA Plants and Animals Module continued

TEACHER-SUPPLIED ITEMS

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| <ul style="list-style-type: none"><li>• Chart paper</li><li>• Marking pen for transparencies</li><li>• Newspaper</li><li>• Paper towels</li><li>• Potting soil</li><li>• White glue</li><li>• Scissors</li><li>• Straightedge</li><li>• Box or tray</li><li>• Flower pots and coasters</li><li>• Large flower pot</li><li>• Construction paper, brown and green</li><li>• Paper cups (optional)</li><li>• Paper cutter (optional)</li><li>• Drawing paper</li><li>• Paint, colored pencils, markers, other media</li><li>• Plastic teaspoons</li></ul> | <ul style="list-style-type: none"><li>• Transparencies, blank</li><li>• Paring knives</li><li>• Pitcher or 2-liter soda bottle</li><li>• Plants to make cuttings</li><li>• Potatoes</li><li>• Onion or garlic bulbs</li><li>• Roots (carrots, radishes)</li><li>• Pencils</li><li>• Plastic bags</li><li>• Metric rulers</li><li>• Water</li><li>• White paper</li><li>• Index cards (optional)</li><li>• Camera and film</li><li>• Large plastic bag</li><li>• Bottled water (optional)</li><li>• Animals (earthworms, isopods)</li><li>• Food for animals (apple, carrots, seeds, dried leaves)</li><li>• Small sticks or stones</li></ul> |
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OTHER THINGS TO CONSIDER

- Duplicate student sheets.
- You could have some classes start with Activity 1-2 and other classes do Activities 3-4. This would cut down on the amount of extra permanent equipment needed. The above lists assumes that all classes would be starting with Activity 1.
- You may want to make extra paper copies of the Class Calendars if you are teaching more than two classes.

## FOSS CA SOLID EARTH MODULE

### Quantities for Multiple-Class Use

#### ADDITIONAL MATERIALS

There are enough consumable materials in the **Solid Earth** kit for use with TWO classes of UP TO 32 students on the same day. To insure that each class has the same experiences, you may need to purchase the additional materials in the quantities listed in the table below.

#### [ORDERING INFORMATION](#)

The suggested materials can be ordered from [Delta Education](#).

ITEM	Delta Part #	Quantity in package	2 classes	3 classes	4 classes
Gravel, green*	070-2074	1 bag	0	1 bag	1 bag
Gravel, red*	070-2063	1 bag	0	1 bag	1 bag
Oyster shell*	190-9698	1 bag	0	1 bag	1 bag
Paper plates*	160-2798	35	0	70	70
Vials, 12-dram, with caps	221-4145	50	44	88	132
Trays, FOSS	200-5080	1	8	16	24
Calcite, small	180-0776	5	0	20	30
Calcite, large	180-2987	5	10	20	30
Basalt	180-5660	10	10	20	30
Limestone	180-1030	5	20	40	60
Marble, white	180-1095	5	10	20	30
Sandstone, gray	180-1216	5	10	20	30
Granite, pink	180-3251	5	10	20	30
Stream tables	200-5090	1	8	16	24
White clay, 1 lb/bag	030-4920	1 bag	3 bags	6 bags	9 bags
Fine sand, 3 lb/bag	190-9027	10 lbs	9 bags	18 bags	27 bags
Duct tape, 20 m/roll (20 yards)*	200-0261	1 roll	0	1	1
Food coloring, 4 colors/set*	060-1325	1 set	0	1 set	1 set
Overlay Grid, transparency	150-0630	1	18	36	54
Labels, sticky note pads, 100/pad	120-5709	4 pads	0	2	2
Zip bags, 1-liter	021-1353	25	25	50	75

FOSS California Solid Earth Module continued

TEACHER-SUPPLIED ITEMS

- Alum (optional)
- Flip chart
- Marking pen
- Safety goggles (1 per student)
- White flour
- Paper towels
- Bleach (optional)
- Clock with second hand
- Egg cartons, foam styrene
- Newspaper
- Sturdy plastic bag
- Water
- Basin or bucket
- Large magnifying lens (optional)
- Colored pencils or pens
- Salt
- Chalk
- Vinegar
- Glass bottle with tight-fitting cap
- Dustpan and broom
- Map of the western U.S. or the U.S.
- Pitchers
- VCR and monitor

\* Consumable item

OTHER THINGS TO CONSIDER

- Duplicate student sheets

## FOSS CA Trees Module

### Quantities for Multiple-Class Use

- [2 classes/day](#) • [3 classes/day](#) • [4 classes/day](#) • [Teacher-Supplied Items](#) • [Other Things to Consider](#)
- [pdf version](#)

#### ADDITIONAL MATERIALS

There are enough consumable materials in the **Trees** kit for use with TWO classes of UP TO 32 students on the same day. To insure that each class has the same experiences, you may need to purchase the additional materials in the quantities listed in the table below.

#### ORDERING INFORMATION

The suggested materials can be ordered from [Delta Education](#).

Component	Delta Part Number	Quantity in package	2 classes	3 classes	4 classes
String ball, 30 m, (100')	191-1469	30 m	0	15 m	20 m
Zip bags, 1 liter	021-1353	25	0	50	75

\* Consumable item

#### TEACHER-SUPPLIED ITEMS

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| <ul style="list-style-type: none"><li>• Camera</li><li>• Chart paper</li><li>• Clipboard</li><li>• Construction paper for scrap book</li><li>• Crayons and pencils</li><li>• Marking pen, permanent</li><li>• Marking pens, different colors</li><li>• Planting tools</li><li>• Scissors</li><li>• Self-stick notes or scratch paper</li><li>• Stapler</li><li>• Transparent tape</li><li>• Tree, live, in a container</li><li>• Wallpaper or contact paper</li><li>• White glue</li><li>• White paper</li><li>• Yarn, cord, or ribbon</li><li>• Soda bottles, 2-liter</li></ul> | <ul style="list-style-type: none"><li>• Cardboard box or shopping bag</li><li>• Containers for leaves</li><li>• Flannel board</li><li>• Leaves from trees</li><li>• Whistle or bell</li><li>• Bark photos</li><li>• Book about trees</li><li>• Cups</li><li>• Container for water</li><li>• Crayons and pencils</li><li>• Drawing paper</li><li>• Evergreen twigs, needles, and scales</li><li>• Edible fruits and nuts in shells</li><li>• Gravel or small rocks</li><li>• Knife</li><li>• Laminator (optional)</li><li>• Nutcracker</li><li>• Paper towels</li></ul> |
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#### OTHER THINGS TO CONSIDER

- Duplicate student sheets.
- You may want to make extra copies of the Class Calendars.
- The same live tree can be used with each class.
- Prepare a scrapbook for each class.
- You can make replacement copies of leaf silhouettes, poster labels, and tree-part cards by using the duplication masters included in each teacher guide.

**FOSS CA WOOD AND PAPER MODULE**  
**Quantities for Multiple-Class Use**

ADDITIONAL MATERIALS

There are enough consumable materials in the **Wood and Paper** kit for use with TWO classes of UP TO 32 students on the same day. To insure that each class has the same experiences, you may need to purchase the additional materials in the quantities listed in the table below.

ORDERING INFORMATION

The suggested materials can be ordered from [Delta Education](#).

Component	Delta Part Number	Quantity in package	2 classes	3 classes	4 classes
Fabric squares, burlap, red, 4 cm (1.5")*	031-9538	75	0	100	140
Index cards, plain, 3" x 5"*	030-2433	100	0	100	140
Paper plates*	160-2798	35	0	100	140
Sandpaper sheets, coarse, #50, 23 x 28 cm*	192-3712	5	0	5	7
Sawdust, wood, 1 gallon/bag*	191-7112	1 bag	0	1.5 bags	2 bags
Self-stick notes, small, 100/pad*	120-2475	100	0	45	60
Sticks, craft*	030-7482	1000	0	500	650
Tape, removable*	200-7411	1 roll	0	1 roll	1 roll
Tape, transparent*	200-4640	1 roll	0	1 roll	2 rolls
Waxed paper*	160-0972	1 roll	0	1 roll	2 rolls
Wood pieces, thin, 1/16" x 3/4" x 2 1/2"*	230-3487	300	0	300	400
Wood shavings (1 gallon/bag)*	230-3553	1 bag	0	1.5 bags	2 bags
Basswood for sanding*	230-3509	36	0	36	54
Cardboard pieces, 10-cm square (4")*	033-5985	75	0	115	155
Chipboard pieces, 10-cm square (4")*	031-9417	100	0	115	155
Corrugated, 10-cm square (4")*	162-0550	75	0	115	155
Kraft, 10-cm square (4")*	162-0560	75	0	115	155
Newsprint pieces, 10-cm square (4")*	162-0571	75	0	115	155
Tagboard pieces, 10-cm square (4")*	200-7422	100	0	115	155



#### TEACHER-SUPPLIED ITEMS

- Chart paper
- Marking pens, different colors
- Newspaper
- Paper towels
- Permanent marking pen
- Pitcher or empty 2-liter soda bottle
- Small object that float and sink (optional)
- Turkey baster (optional)
- Water
- Cornstarch
- Container, large zip bag, or jar
- Pencil or marker
- Saucepan
- Saw and plane (optional)
- Scratch paper
- Spoon, long-handled
- White glue
- Construction paper, white
- Clothesline and clothespins (optional)
- Crayons
- Facial tissue
- Paper, white
- Book, *The Piñata Maker* (optional)
- Fabric scraps
- Flour
- Materials to sort and recycle
- Rags, old towels
- Scissors
- Screwdriver or mat knife
- Toilet tissue, single-ply
- Wood scraps
- Paper boxes
- Paper cutter (optional)
- Paper scraps

\* Consumable item

#### OTHER THINGS TO CONSIDER

- Duplicate student sheets.
- You may want to make extra copies of the Class Calendars.
- Have students help collect different wood and paper scraps, and recyclable materials, such as cans, paper, plastic, and small jars.