

Molecular Processes in Earth Systems

Included Items

Lesson		
1	2.25" polystyrene foam ball (rubber)	1
1	8" inflatable beach ball	1
1	Half sheet protector	123
1,2	Fishing line	1
1,4,6,7,8,11	Index Cards, 4 x 6 unlined	3 pk of 100
1,5,6,8	Painters tape (blue color)	1
1,9	Sticky notes (3" x 3")	4 pad of 100
2	Electric tea kettle	2
2	Food coloring - color A	30 ml
2	Food coloring - color B	30 ml
2	Food coloring - color C	30 ml
2	Funnel	1
2	Glass capillary tubes (0.5 x 100 mm)	1 vial of 50
2	Infrared thermometer	3
2	Plastic test tubes (12 x 100 mm) with caps	8
2	Ruler (metric)	6
2	Steel nuts - used as submersion weights	36
2	Insulated cups with lids, 8 oz	9
3	Full sheet protector	36
4	Aluminum pan (6x3x2)	14
4	Sand, clean & dry	2.5 kg
5	Teacher Reference Lit	1
5	Disposable cuvettes	36
5	Pipets	3 pk 20
5	Diffraction grating	1 pk 10
5	Mirror supports	8
5	Double convex lens FL 20 cm	16
5	Foam rectangle (4 in x 6 in)	8
5	Sticky tack	1
5	Index cards	1 pk 100
5	White cardboard 5 x 5	8
5	Printed graph card (3 per pg)	3 sheets
5	Praseodymium chloride	20 ml

5	Erbium chloride	20 ml
5	Copper chloride	20 ml
7,11	Paper clips	7 pk of 100
8,9	13 piece molecular model set	16 pk
8,9	Hot glue gun	1
8,9	Hot glue stick	1 pk 6
8,9	Mini-clothespins	2 pk of 50
13	Pen made from a recycled bottle	1 pk 5

Sold Separately

Suggested Quantities

Available at wardsci.com Part

Lesson

2	Digital scale	1	470356-526
5	Flashlights	8	470101-300

Locally Sourced Items

Suggested Quantities

Available at wardsci.com Part

Lesson

1,2	1" binder clips	2 box	470188-342
2	Pennies	36	
2	Plastic storage bin - for soapy water	6	470229-572
2	Table salt (NaCl)	60 g	470324-147
2,4	Acetone	1 liter	470300-056
2,4	Rubbing (Isopropyl) Alcohol (91%)	1 liter	470301-468
2,4	Vegetable oil	1 liter	470303-004
2,4,5	Tap water	4 liters	
3,10,11,12	Individual whiteboard	35	470314-158
8,9	Clear container or bag	1 pkg 100	470226-588

Std. Lab/Class Equipment Lesson		Suggested Quantities	Available at wardsci.com Part #
1	Calculator	35	470349-970
1,2,3,4,5,6,8,9,10,11	Chart paper	1 pad of 50	470149-864
1,2,3,4,5,6,8,9,10,11	Chart paper markers	1 set	470338-508
1,3,8	Loose-leaf paper		
1,9	Colored markers	5 set	470347-380
2	Cup (paper or plastic) - 8oz or larger	3	470222-068
2	Indirectly vented chemical splash goggles	35	470016-082
2	Nitrile gloves (disposable)	35	76518-338
2	Non-latex apron	2 pkg of 20	470332-710
2	Paper towels	1	470174-714
2	Sharps disposal container	1	470106-202
2,4	250 mL beakers	24	470191-150
2,4	Pipets	1 pk of 100	470020-860
3,7,10,11	Dry erase marker	35	470046-806
4,8	Copy paper	1 pkg of 20	470089-238