

Issues and Science

Transitioning from
Second to Third Edition

CHEMISTRY OF MATERIALS (Second Edition) **to**
CHEMISTRY OF MATERIALS (Third Edition)

Drawer 1



Drawer 2



Drawer 3



Only drawers with transition items are shown

2nd Ed Qty	2nd Ed Drawer #	Description	3rd Ed Drawer #	3rd Ed Qty	Activity # where used	Consum-able ♦	Part Number
8	1	Blocks, glass (scratch plates), 5 cm x 2.5 cm x 0.5 cm A	2	8	4		SC-004
8	1	Limestone pieces B	2	8	3		LI005
16	1	Molecular model sets - 32 white, 18 black, 14 red, 4 blue, and 54 white bonds (<i>16 from 2nd edition, 1 in 3rd edition drawer for a total of 17</i>) C	3	17	6, 7, 11, 12		IAPS-P22
1	1	Rods, carbon, 3/16" x 1.5" D	2	12	2		CR-001B
1	1	Rods, glass, 5 mm x 1.5" E	2	12	3		GR-004
8	1	Strips, aluminum, 3/8" x 1.5" (<i>8 from 2nd edition, 32 in 3rd edition drawer for a total of 40</i>) F	2	40	2, 3	♦	AL014A
1	1	Strips, copper, 3/8" x 1.5" G	2	8	2	♦	C1-MSCX8
1	1	Strips, iron, 3/8" x 1.5" H	2	8	2	♦	C1-MSIX8
8	2	Bottles, wide mouth, empty, 60 mL I	2	8	12		BTL021
2	2	Cups, graduated, 30 mL J	2	32	3, 9, 11		TW-GCX16
8	2	Hydrochloric acid solution, 1.0 M, 15 mL drop controlled bottles K	1	8	3	♦	IAPS-B20
500	2	Paper clips L	2	400	12		CL-002
1	2	Paper clips, colored M	2	100	12		SMS-P026
8	2	Polyvinyl alcohol solution, 4%, 180 mL bottles N	1	8	11	♦	PL-1-5EA
8	2	Sodium borate solution, 4%, 30 mL bottles O	1	8	11	♦	PL-1-3EA
1	2	Spoons, plastic, large P	3	16	10, 11, 12		TW-SPX16
1	3	Stir sticks Q	3	16	2, 3, 9, 11		TL-MSX16E

Chemistry of Materials Drawer 1

Third Edition



Chemistry of Materials Drawer 1

No.	Description	Item No.
1.	Calcium carbonate, 7 g vials	IF-1-6EA
2.	Denatured ethanol, 30 mL drop controlled bottles	HM-2B07E
3.	Food coloring solution, blue, 15 mL drop controlled bottles	SA-1B03E
4.	Hydrochloric acid solution, 1.0 M, 15 mL drop controlled bottles	IAPS-B20
5.	Polyvinyl alcohol solution, 4%, 180 mL bottles	PL-1-5EA
6.	Sodium borate solution, 4%, 30 mL bottles	PL-1-3EA
7.	Sodium chloride, 1700 g bottles	SMS-B006

Chemistry of Materials Drawer 2

Third Edition



Chemistry of Materials Drawer 2

No.	Description	Item No.
1.	Blocks, aluminum, 5 cm x 2.5 cm x 0.5 cm	AL-006C
2.	Blocks, glass (scratch plates), 5 cm x 2.5 cm x 0.5 cm	SC-004
3.	Blocks, high-density polyethylene (HDPE), red, 5 cm x 2.5 cm x 0.5 cm	BL-002R
4.	Blocks, polypropylene (PP), blue, 5 cm x 2.5 cm x 0.5 cm	BL-002B
5.	Blocks, polystyrene (PS), yellow, 5 cm x 2.5 cm x 0.5 cm	BL-002Y
6.	Blocks, polyvinyl chloride (PVC), green, 5 cm x 2.5 cm x 0.5 cm	BL-002G
7.	Bottles, wide mouth, empty, 60 mL	BTL021
8.	Clay set, modeling	CL-013
9.	Cups, graduated, 30 mL	TW-GCX16

10.	Limestone pieces	LI005
11.	Paper clips	CL-002
12.	Paper clips, colored	SMS-P026
13.	Rods, carbon, 3/16" x 1.5"	CR-001B
14.	Rods, glass, 5mm x 1.5"	GR-004
15.	Rulers, metric, 15 cm	RU-003B
16.	SEPUP trays	CT-001
17.	Strips, aluminum 3/8" x 1.5"	C1-MSAX8
18.	Strips, copper, 3/8" x 1.5"	C1-MSCX8
19.	Strips, iron, 3/8" x 1.5"	C1-MSIX8
20.	Strips, polypropylene plastic, blue; strips, polystyrene plastic, yellow	SMS-P022
21.	Syringe stoppers	SMS-P023
22.	Syringes, 6 mL	SY-002

Chemistry of Materials Drawer 3

Third Edition



Chemistry of Materials Drawer 3

No.	Description	Item No.
1.	Graduated cylinders, 50 mL	GC-011
2.	Molecular model sets (32 white, 18 black, 14 red, 4 blue, and 54 white bonds)	IAPS-P22
3.	Plastic cups, 9 oz	TW-9CX16
4.	Spoons, plastic, large	TW-SPX16
5.	Stir sticks	TL-MSX16E

Chemistry of Materials Drawer 4

Third Edition



Chemistry of Materials Drawer 4

No.	Description	Item No.
1.	Beaker test tube holders, foam	BE-011
2.	Beakers, tri-pour, plastic, 400 mL	BE-010
3.	Test tubes, plastic, 13 mm x 100 mm	TT-001
4.	Thermometers, partial immersion, 20 to 110°C, 12"	TH-005

2nd Ed Qty	2nd Ed Drawer #	Description	3rd Ed Drawer #	3rd Ed Qty	Activity # where used	Consumable ♦	Part Number
8	1	Blocks, glass (scratch plates), 5 cm x 2.5 cm x 0.5 cm	2	8	4		SC-004
8	1	Limestone pieces	2	8	3		LI005
16	1	Molecular model sets - 32 white, 18 black, 14 red, 4 blue, and 54 white bonds <i>(16 from 2nd edition, 1 in 3rd edition drawer for a total of 17)</i>	3	17	6, 7, 11, 12		IAPS-P22
1	1	Rods, carbon, 3/16" x 1.5"	2	12	2		CR-001B
1	1	Rods, glass, 5 mm x 1.5"	2	12	3		GR-004
8	1	Strips, aluminum, 3/8" x 1.5" <i>(8 from 2nd edition, 32 in 3rd edition drawer for a total of 40)</i>	2	40	2, 3	♦	AL014A
1	1	Strips, copper, 3/8" x 1.5"	2	8	2	♦	C1-MSCX8
1	1	Strips, iron, 3/8" x 1.5"	2	8	2	♦	C1-MSIX8
8	2	Bottles, wide mouth, empty, 60 mL	2	8	12		BTLO21
2	2	Cups, graduated, 30 mL	2	32	3, 9, 11		TW-GCX16
8	2	Hydrochloric acid solution, 1.0 M, 15 mL drop controlled bottles	1	8	3	♦	IAPS-B20
500	2	Paper clips	2	400	12		CL-002
1	2	Paper clips, colored	2	100	12		SMS-P026
8	2	Polyvinyl alcohol solution, 4%, 180 mL bottles	1	8	11	♦	PL-1-5EA
8	2	Sodium borate solution, 4%, 30 mL bottles	1	8	11	♦	PL-1-3EA
1	2	Spoons, plastic, large	3	16	10, 11, 12		TW-SPX16
1	3	Stir sticks	3	16	2, 3, 9, 11		TL-MSX16E

Brand New items that come in the 3rd Edition Drawers

		Calcium carbonate, 7 g vials	1	8	3	♦	IF-1-6EA
		Chemistry of Materials SDS (Safety Data Sheets)	1	1			SMS-MAT-3SDS
		Denatured ethanol, 30 mL drop controlled bottles	1	8	3	♦	HM-2B07E
		Food coloring solution, blue, 15 mL drop controlled bottles	1	8	9	♦	SA-1B03E
		Sodium chloride, 1700 g bottles	1	2	3, 10	♦	SMS-B006
		Blocks, aluminum, 5 cm x 2.5 cm x 0.5 cm	2	8	4		AL-006C
		Blocks, high-density polyethylene (HDPE), red, 5 cm x 2.5 cm x 0.5 cm	2	8	4		BL-002R
		Blocks, polypropylene (PP), blue, 5 cm x 2.5 cm x 0.5 cm	2	8	4		BL-002B
		Blocks, polystyrene (PS), yellow, 5 cm x 2.5 cm x 0.5 cm	2	8	4		BL-002Y
		Blocks, polyvinyl chloride (PVC), green, 5 cm x 2.5 cm x 0.5 cm	2	8	4		BL-002G
		Clay set, modeling	2	1	8		CL-013
		Rulers, metric, 15 cm	2	16	4		RU-003B
		SEPUP trays	2	8	3		CT-001
		Strips, polypropylene plastic, blue	2	8	3	♦	SMS-P022
		Strips, polystyrene plastic, yellow	2	8	3	♦	SMS-P022
		Syringe stoppers	2	24	8		SMS-P023
		Syringes, 6 mL	2	24	8, 9		SY-002
		Graduated cylinders, 50 mL	3	16	10		GC-011
		Plastic cups, 9 oz (part number is for 16 cups)	3	32	2, 3, 4, 9, 11, 12		TW-9CX16
		Beaker test tube holders, foam	4	16	10		BE-011
		Beakers, tri-pour, plastic, 400 mL	4	48	9, 10		BE-010
		Test tubes, plastic, 13 mm x 100 mm	4	16	3, 9, 10		TT-001
		Thermometers, partial immersion, 20 to 110°C, 12"	4	16	9, 10		TH-005