

***Issues and Science***  
Transitioning from  
Second to Third Edition

**ENERGY** (Second Edition) to  
**ENERGY** (Third Edition)

Drawer 1



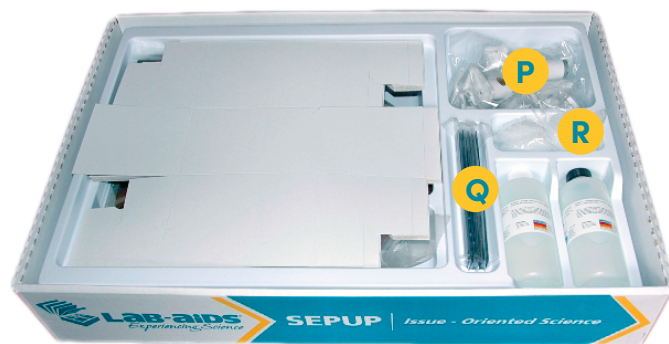
Drawer 2



Drawer 3



Drawer 4



Drawer 6



*Only drawers with transition items are shown*

2nd Ed Qty	2nd Ed Drawer #	Description	3rd Ed Drawer #	3rd Ed Qty	Activity # where used	Consumable ♦	Part Number
24	1	Blocks, styrofoam, 2" x 2" x 4" <b>A</b>	1	24	2	♦	C1-BLX8
650 g	1	Copper Shot, 800 g ( <i>650 g from 2nd edition, 150 g in 3rd edition drawer for a total of 800 g</i> ) <b>B</b>	1	800 g	4		SMS-B007
8	1	Cylinders, aluminum, 10 cm x 1.3 cm <b>C</b>	1	8	2		AL-002B
8	1	Cylinders, aluminum, 5 cm x 1.3 cm <b>D</b>	1	8	2		AL-002A
8	1	Cylinders, steel, 10 cm x 1.3 cm <b>E</b>	1	8	2		ST-010B
8	1	Cylinders, steel, 5 cm x 1.3 cm <b>F</b>	1	8	2, 8		ST-010A
16	1	Nails, galvanized steel <b>G</b>	1	16	2		IAPS-P32
8	1	Shot Shaker caps with hole <b>H</b>	1	8	4		SS-1P23E
8	1	Shot Shakers with cap (no hole) <b>I</b>	1	8	4		SS-1B37E
8	1	Thermometers, partial immersion, -20 to 110°C ( <i>8 from 2nd edition, 1 in 3rd edition drawer for a total of 9</i> ) <b>J</b>	1	9	4, 8		TH-005
8	1	Tubes, transparent, 3/4" diam x 4" <b>K</b>	1	8	2		TUBE009
8	1	Tubes, transparent, 3/4" diam x 8" <b>L</b>	1	8	2		TUBE0010
100	4	Resealable bags, 4" x 6" <b>R</b>	3	100	10		C1-BX100
50	2	Cups, styrofoam, 8 oz ( <i>only 32 need to transfer over</i> ) <b>M</b>	4	32	7, 8, 10		C1-8CX25
16	2	Thermometers, metal back, -20 to 110°C ( <i>16 from 2nd edition, 16 in 3rd edition drawer for a total of 32</i> ) <b>N</b>	4	32	7, 11, 13, 14		TH-002A
24	3	Bulbs, #50 ( <i>only 8 need to transfer over</i> ) <b>O</b>	4	8	14		BU-004
16	4	Bulb socket and thermometer foam holders <b>P</b>	4	16	14		RTC1-BTH
8	4	Rulers, metric, 15 cm <b>Q</b>	4	8	2		RU-003B
16	6	Hot Bulb trays <b>S</b>	4	16	14		V-206STRAY
16	6	Plastic cups, 9 oz ( <i>16 from 2nd edition, 8 in 3rd edition drawer for a total of 24</i> ) <b>T</b>	4	24	4, 7, 10, 13		TW-9CX16

# Energy Drawer 1

## Third Edition

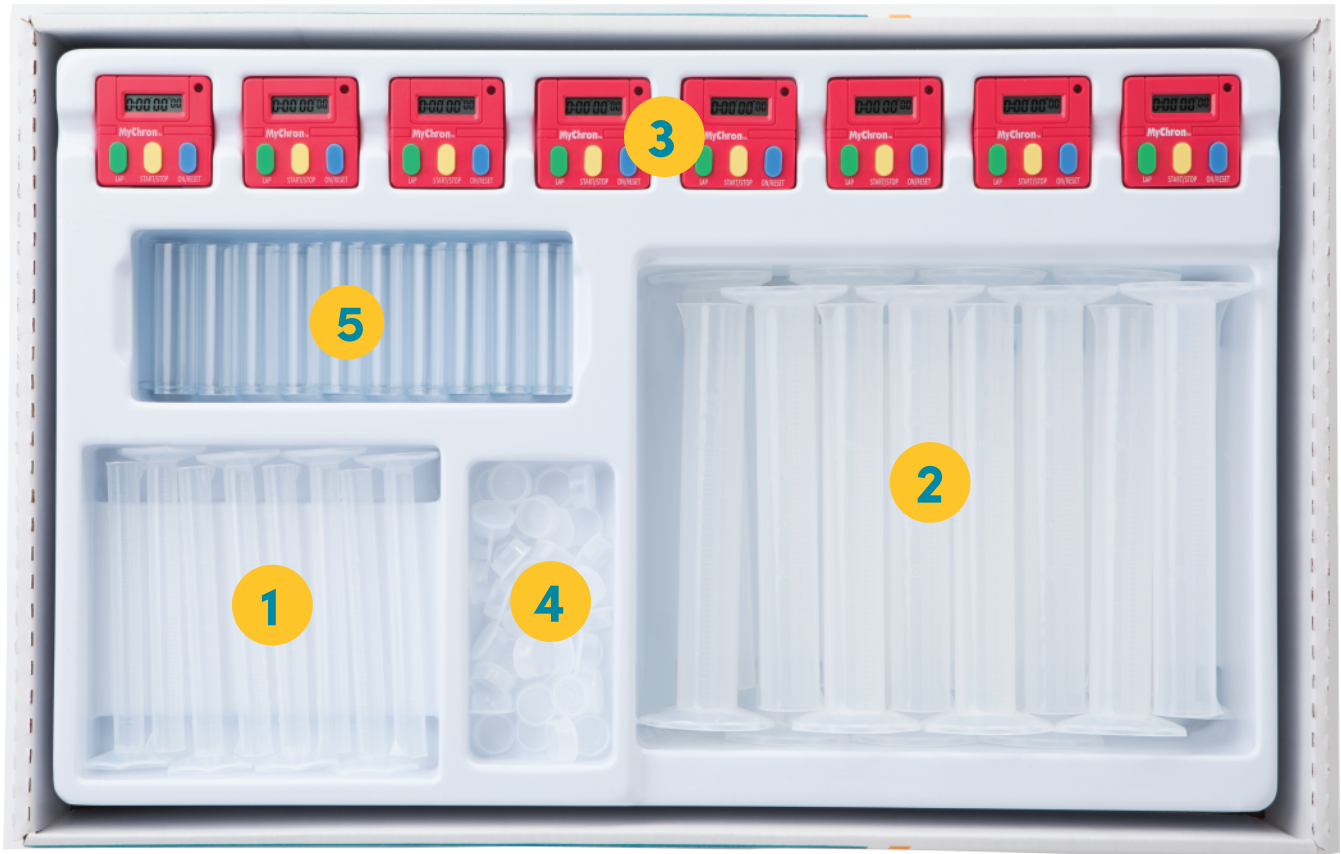


## Energy Drawer 1

No.	Description	Item No.
1.	Blocks, styrofoam, 2" x 2" x 4"	C1-BLX8
2.	Copper Shot, 800 g	SMS-B007
3.	Cylinders, aluminum, 10 cm x 1.3 cm	AL-002B
4.	Cylinders, aluminum, 5 cm x 1.3 cm	AL-002A
5.	Cylinders, steel, 10 cm x 1.3 cm	ST-010B
6.	Cylinders, steel, 5 cm x 1.3 cm	ST-010A
7.	Nails, galvanized steel	IAPS-P32
8.	Shot Shaker caps with hole	SS-1P23E
9.	Shot Shakers with cap (no hole)	SS-1B37E
10.	Thermometers, partial immersion, -20 to 110°C	TH-005
11.	Tubes, transparent, 3/4" diam x 4"	TUBE009
12.	Tubes, transparent, 3/4" diam x 8"	TUBE0010

# Energy Drawer 2

Third Edition



## Energy Drawer 2

No.	Description	Item No.
1.	Graduated cylinders, 10 mL	GC-003A
2.	Graduated cylinders, 50 mL	GC-011
3.	Timers, MyChron	SW-005
4.	Vial plugs	C1-CTCX8
5.	Vials, 3/4" x 2-3/4"	TUBE0044

# Energy Drawer 3

## Third Edition



## Energy Drawer 3

No.	Description	Item No.
1.	Aluminum foil, roll	SMS-P018
2.	Cloths, black	FA-003-1
3.	Cloths, white	ES-2P04E
4.	Cylinders, steel, with hole, 2.5 cm x 1.3 cm	ST-010D
5.	Cylinders, steel, with hole, 5 cm x 1.3 cm	ST-010C
6.	Energy Efficiency Factor cards, set of 4	SMS-L027
7.	Energy Event cards, set of 16	SMS-L026
8.	Plastic wrap, roll	PW-002
9.	Resealable bags, 4" x 6"	C1-BX100
10.	Stoppers, rubber, with hole	RS-010A
11.	String spool, 200 ft	ST-027

# Energy Drawer 4

## Third Edition



## Energy Drawer 4

No.	Description	Item No.
1.	Battery harness, 9-volt with an LED bulb and incandescent bulb socket	EH-001
2.	Bulb socket and thermometer foam holders	RTC1-BTH
3.	Bulbs, #50	BU-004
4.	Cups, styrofoam, 8 oz	C1-8CX25
5.	Hot Bulb trays	V-206STRAY
6.	Plastic cups, 9 oz	TW-9CX16
7.	Rulers, metric, 15 cm	RU-003B
8.	Thermometers, metal back, -20 to 110°C	TH-002A



2nd Ed Qty	2nd Ed Drawer #	Description	3rd Ed Drawer #	3rd Ed Qty	Activity # where used	Consum-able ♦	Part Number
24	1	Blocks, styrofoam, 2" x 2" x 4"	1	24	2	♦	C1-BLX8
650 g	1	Copper Shot, 800 g (650 g from 2nd edition, 150 g in 3rd edition drawer for a total of 800 g)	1	800 g	4		SMS-B007
8	1	Cylinders, aluminum, 10 cm x 1.3 cm	1	8	2		AL-002B
8	1	Cylinders, aluminum, 5 cm x 1.3 cm	1	8	2		AL-002A
8	1	Cylinders, steel, 10 cm x 1.3 cm	1	8	2		ST-010B
8	1	Cylinders, steel, 5 cm x 1.3 cm	1	8	2, 8		ST-010A
16	1	Nails, galvanized steel	1	16	2		IAPS-P32
8	1	Shot Shaker caps with hole	1	8	4		SS-1P23E
8	1	Shot Shakers with cap (no hole)	1	8	4		SS-1B37E
8	1	Thermometers, partial immersion, -20 to 110°C (8 from 2nd edition, 1 in 3rd edition drawer for a total of 9)	1	9	4, 8		TH-005
8	1	Tubes, transparent, 3/4" diam x 4"	1	8	2		TUBE009
8	1	Tubes, transparent, 3/4" diam x 8"	1	8	2		TUBE0010
100	4	Resealable bags, 4" x 6"	3	100	10		C1-BX100
50	2	Cups, styrofoam, 8 oz (only 32 need to transfer over)	4	32	7, 8, 10		C1-8CX25
16	2	Thermometers, metal back, -20 to 110°C (16 from 2nd edition, 16 in 3rd edition drawer for a total of 32)	4	32	7, 11, 13, 14		TH-002A
24	3	Bulbs, #50 (only 8 need to transfer over)	4	8	14		BU-004
16	4	Bulb socket and thermometer foam holders	4	16	14		RTC1-BTH
8	4	Rulers, metric, 15 cm	4	8	2		RU-003B
16	6	Hot Bulb trays	4	16	14		V-206STRAY
16	6	Plastic cups, 9 oz (16 from 2nd edition, 8 in 3rd edition drawer for a total of 24)	4	24	4, 7, 10, 13		TW-9CX16

#### Brand New items that come in the 3rd Edition Drawers

		Energy SDS (Safety Data Sheets)	1	1	0		SMS-ENE-3SDS
		Graduated cylinders, 10 mL	2	8	14		GC-003A
		Graduated cylinders, 50 mL	2	16	7, 8, 10, 13		GC-011
		Timers, MyChron	2	8	4, 11, 13, 14		SW-005
		Vial plugs	2	40	13		SMS-P020
		Vials, 3/4" x 2-3/4"	2	40	13		TUBE0044
		Aluminum foil, roll	3	1	10, 11, 13	♦	SMS-P018
		Cloths, black	3	8	11, 13		FA-003-1
		Cloths, white	3	8	11, 13		ES-2P04E
		Cylinders, steel, with hole, 2.5 cm x 1.3 cm	3	8	8		ST-010D
		Cylinders, steel, with hole, 5 cm x 1.3 cm	3	8	8		ST-010C
		Energy Efficiency Factor cards, set of 4	3	8	15		SMS-L027
		Energy Event cards, set of 16 (these have been redesigned and slightly edited so you may discard the old Energy Event cards and use the ones that come with the transition equipment)	3	4	6		SMS-L026
		Plastic wrap, roll	3	1	10, 13	♦	PW-002
		Stoppers, rubber, with hole	3	8	8		RS-010A
		String spool, 200 ft	3	1	8		ST-027
		Battery harness, 9-volt with an LED bulb and incandescent bulb socket	4	8	14		EH-001