

KIT CONTENTS LIST FOR USE WITH: **Monarch Science 11**

**Alpha Omega Publications**

*Home Science Tools is not affiliated with the above curriculum publisher.*

<u>Text Reference</u>	<u>Item Description</u>	<u>Item Quantity</u>	<u>Notes</u>
1-9	Digital Scale, 2000 g x 0.1 g (BS-DB2000)		We recommend this digital scale as a faster, easier-to-use, and more economical alternative to a traditional mechanical balance. It will work for all labs in this curriculum. Order separately.
1.12	Ruler, 30 cm (ME-RULER )		Ruler 30cm. Order separately or find at local supply store.
2.4	Paradichlorobenzene, 30 g (CH-MOTHCRY)	1	
2.4, 3.8	Burette Clamp (CE-CLAMP )	1	
2.4, 3.8	Wire Gauze, ceramic center, 5" (CE-GAUZE )	1	
2.4, 3.8, 4.3	Alcohol Lamp Burner, Wickless (CE-LAMP )	1	Use instead of Bunsen Burner.
2.4, 3.8, 4.3	Denatured Alcohol Fuel, 16 ounces (UN-ALCFUEL)		Optional. Order only if you don't want to purchase denatured alcohol locally for the alcohol lamp. Order separately.
2.4, 3.8, 4.3	Ethyl Alcohol, 95%, 30 ml (UN-ETHYALC)		Optional. Order only if you don't want to purchase denatured alcohol locally for the alcohol lamp. Order separately.
2.4, 3.8, 4.3	Ring Support, 4" (CE-RING4 )	1	
2.4, 3.8, 4.3	Support Stand, 4" x 6" base, 18" rod (CE-STAND2 )	1	
2.4, 3.8, 6.4	Thermometer, Celsius, 12" (ME-THER30B)	2	
2.4, 9.10	Beaker, glass, 250 ml (CE-BEI0250)	2	
2.5	Filter Paper, 11 cm, 10 pack (CE-FILTPAP)	1	
2.5	Funnel, plastic, 65 mm dia. (CE-FUNNEL )	1	
2.5	Sand, fine, 1 lb. (GS-SANDFIN)	1	
3.8	Beaker, glass, 1000 ml (CE-BEI1000)	1	
3.8	Erlenmeyer Flask, 250 ml (CE-FLAI250)	1	
3.8	Glass Tube, 5 mm, 3" long (CE-TUBEGLS)	1	
3.8	Rubber Stopper, #6.5, 1-hole (CE-STOP06A)	1	
4.3	Copper, metal electrode, 4" (EL-ELECTCU)		Optional activity. A Bunsen Burner is needed to complete this lab. Order separately.
4.3	Iron, metal electrode, 4" (EL-ELECTFE)		Optional activity. A Bunsen Burner is needed to complete this lab. Order separately.
4.3	Magnesium Ribbon, 60 cm (UN-MG )		Optional activity. A Bunsen Burner is needed to complete this lab. Order separately.
4.3	Portable Micro Lab Burner (CE-BURNLAB)		Optional. Needed to complete this lab. Order separately.
5.9	Friction pad, wool, 6x6" (GS-PADWOOL)	1	

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5.9	Paper, special set, 10 sheets (GS-PAPERSP)	1	Contains vinyl and acetate sheets needed.
6.2	Bottle, dropper, 30 ml (CE-BTGDROP)		Use for making and storing solutions. Can use baby food jars instead. Order separately.
6.2	Potassium Chromate, 30 g (UN-K2CRO4)	1	
6.2	Silver Nitrate, 2 g (UN1493)	1	
6.2, 6.3, 6.4	Bottle, 250 ml (8 oz), natural HDPE plastic (CE-BTP250N)		Use for making and storing solutions. Can use baby food jars instead. Order separately.
6.2, 6.3, 6.4, 7.12	Pipet, disposable, 1 ml, 10 pack (CE-PIPET)	1	Use instead of eye droppers.
6.3	Ferrous Sulfate (Iron II), 30 g (CH-FESO4)	1	
6.3	Potassium Permanganate, 30 g (UN1490)	1	
6.3, 6.4	Ammonium Nitrate, 30 g (UN1942)	1	
6.3, 6.4	Sodium Hydroxide, 30 g (UN1823)	1	
6.3, 6.4, 6.9, 7.12	Hydrochloric Acid, 12 Molar, 30 ml (UN1789)	1	You can get by with only one bottle if you make only the volumes of dilute acid needed to do each lab. Otherwise buy 2 bottles.
6.4	Forceps, stainless steel (DE-FORCEP)		Can use a pair of tweezers. Order separately or find at local supply store.
6.4	Phenolphthalein Solution, 30 ml (UN-PHENOLS)	1	
6.4	Rubber Stopper, #0, solid (CE-STOP0XC)	8	
6.9, 7.12	Calcium Carbonate, chips, 30 g (CH-CACO3)	1	Use in place of chalk.
8.8	Glycerin, 30 ml (CH-GLYCERN)	1	
9.3	Acetone, 30 ml (UN1090)	1	
9.3	Wax pencil (marks glass) (BE-WAXPENC)		Order separately or find at local supply store.
9.3-9.12	Molecular Model Set, Small (CE-MODELSM)		Optional. Will help students visualize molecular structures. Order separately.
10.10	Beaker, polypropylene, 250 ml (CE-BEA250P)	1	
10.10	Food Coloring, 4 colors (CH-FOODCOL)		food coloring, order separately or find at local supply store.
10.10	Polyvinyl Alcohol, 30 g (CH-POLYALC)	1	
10.10	Sodium Tetraborate, 30 g (CH-NA2B4O7)	1	
Several Labs	Chemical Splash and Impact Safety Goggles, Adult (CE-GOGGLE1)	1	Both student(s) and teacher should wear goggles in all labs using chemicals. Glasses are not adequate protection.
Several Labs	Graduated Cylinder, glass, 10 ml (CE-CYGL10)	1	Use when making solutions.
Several Labs	Graduated Cylinder, glass, 100 ml (CE-CYGL100)	1	Use when making solutions.
Several Labs	Lab Apron No 3, plastic, 2 mil (CE-APRON3)	1	Both student(s) and teacher should wear an apron in all labs using chemicals. Order extras if needed.
Several Labs	Safety Gloves, size 8 - 8.5 Medium (CE-SGLOVEM)	1	Always wear chemically resistant gloves when using chemicals. Order CE-SGLOVES for size 6, CE-SGLOVEM for size 8, CE-SGLOVEL for size 9, all the same price.

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Several Labs	Stirring Rod, glass, 6" <i>(CE-STIRROD)</i>	1	
Several Labs	Test Tube Brush, small <i>(CE-TTBRUSH)</i>	1	
Several Labs	Test Tube Clamp <i>(CE-TUBHOLD)</i>	1	
Several Labs	Test Tube Rack, 6 holes <i>(CE-TTRACK1)</i>	1	
Several Labs	Test Tubes, large 16 x 150 mm <i>(CE-TTUBELG)</i>	4	

1. The products in this kit are intended for parent/teacher use to complete curriculum lab activities with students.
2. Some items are not designed for or intended primarily for children ages 12 and under.
3. Some materials and many chemicals we provide are dangerous and may be harmful if misused. With your purchase, you are assuming all responsibility for any injuries or damages resulting from the storage, use, and disposal of all materials and chemicals.
4. Some products may differ from the web image (such as clay, food coloring, etc.)
5. Some items readily available at grocery stores or not offered by Home Science Tools are not included.
6. We guarantee that you will be happy with every purchase from HST. All products are covered by our 90-day money-back guarantee.

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