










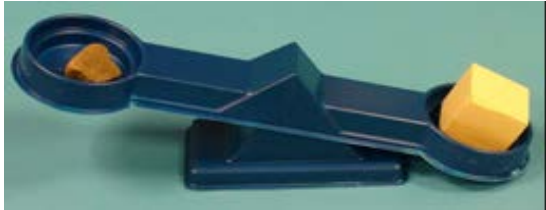
Elementary Science






TEKS Specific
Materials and
Equipment

~Required~

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Where to purchase:	Science Kit Boreal, Sargent-Welch, School Speciality, Teacher Heaven, Ward's Natural Science		
ITEM	Picture Examples <i>The pictures listed here are examples of the type of equipment. The example items do not represent an exact required vendor item.</i>	Notes	
goggles		Need to fit over eye glasses Need to have venting Ideal (not required) to have rubber head straps instead of fabric to reduce lice and other soiling (picture from Sargent Welch)	http://sargentwelch.com/elementary-safety-goggles/p/IG0037733/ (picture from Sargent Welch)
computers	N/A	N/A	
hand lens			http://sargentwelch.com/economy-dual-magnifier/p/IG0037261/ (Picture from Sargent Welch)
clocks	N/A	N/A	
timers		This particular timer comes in sets of 10.	http://sargentwelch.com/mychron-stop-watches/p/IG0037596/ (picture from Sargent Welch)
stopwatches			
magnets		Varying types/ sizes are ideal Include bar magnets and disc magnets	http://sargentwelch.com/economy-magnet-kit/p/IG0038206/ (picture from Sargent Welch)
collecting nets		These can be aquarium nets, home-made nets (from pantyhose, etc), and a variety of other nets	
notebooks		Should be on school supply list (2 for grades 3-5 is idea)	




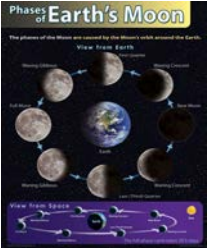
(safety hot plate)		Ceramic Top "Scholar Hot Plate"	http://sargentwelch.com/corning-scholar-170-hotplate/p/IG0037201/ (picture from Sargent Welch)
items to support the investigation of organisms such as terrariums and aquariums	N/A	Great idea: Public area aquarium and/or terrarium or a dual set up. Classroom teachers can make temporary aquariums and terrariums using links in the bundles	
classroom demo thermometer (dual)		N/A	
Celsius (or dual) thermometer		Low Temp Thermometers; Supplemental materials can add submersible thermometers in upper grades later	http://sargentwelch.com/low-temperature-thermometers-in-%23176%3Bc-%23176%3Bf-or-%23176%3Bc/p/IG0037580/ (picture from Sargent Welch)
primary balance		Many FOSS Kits come with these	




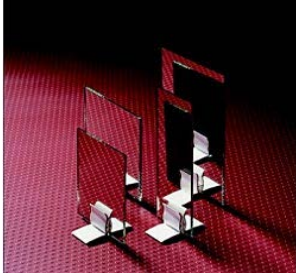

double pan balance		Picture shows bucket balance and double pan balance; both needed	http://sargentwelch.com/ohaus-primer-balance/p/IG0036744/ (bucket balance picture from Sargent Welch)
triple beam balance			http://sargentwelch.com/triple-beam-balances-ohaus/p/IG0036669/ (picture from Sargent Welch)
platform scale		Also commonly called "kitchen scale"	
non-standard measurement tools	N/A	Such as bears, paperclips, clothespins, pennies, etc	
non-standard measurement tools that approximate metric units	N/A	Such as a paperclip, pinky finger nail	
rulers (metric)		Recommend dual rulers (inches and cm); students may have this on school supply list but a lab should have a set and teachers should have a few extra on hand	
meter stick		Recommend a set (1 per 2-4 students) in a lab as well as in each upper grade classroom *Be sure it is a meter stick and not a yard-stick. It can be dual, but a meter stick will have 40 inches instead of 36 inches	




measuring tape (metric)		Measuring tapes (can be dual) come in a variety of styles. The idea here is that it is flexible.	http://sargentwelch.com/windup-fiberglass-measuring-tapes/p/IG0037330/ (picture from Sargent Welch)
measuring cups		Metric or dual measurements, plastic	
measuring spoons		Metric or dual measurements, plastic	
cups	N/A	N/A	
bowls	N/A	N/A	
plastic beakers		Sets with varying sizes are best; metric or dual graduated measurements	http://sargentwelch.com/polypropylene-beaker-set/p/IG0036791/ (picture from Sargent Welch)
beakers		5th Grade can safely use glass versions of the beakers but they can certainly use the same plastic sets listed above.	








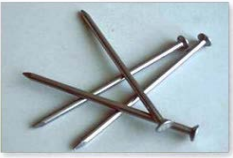
<p>graduated cylinders</p>		<p>Plastic, varying sizes are best; metric or dual graduated markings</p>	<p>http://www.teacherheavencatalog.com/graduated_cylinder_set_of_7-p-23410.html (picture from Teacher Heaven)</p>
<p>rock samples (misc)</p>		<p>This can be built by students bringing in or hunting for rocks to add to the school collection. Students do not classify rock types, but focus on rock properties in general. A general kit provides a variety of type and textures</p>	<p>http://sargentwelch.com/large-size-rock-collection/p/IG0041256/ (picture from Sargent Welch)</p>
<p>sedimentary rock samples</p>		<p>A sedimentary only rock set allows 5th graders to focus on this type of rock when studying sedimentary rock formation and fossil fuels. These rocks can be collected from a variety of sources as well.</p>	<p>http://sargentwelch.com/sargent-welch-sedimentary-rock-collection/p/IG0041255/ (picture from Sargent Welch)</p>
<p>soil samples (stored for no more than 1 year)</p>		<p>loam, silt, sand, clay, topsoil (with humus)</p>	<p>http://wardsci.com/product.asp_Q_pn_E_IG0004663_A_name_E_Soil%2C+Sands%2C+and+Gravel+Set (picture from Ward's Scientific)</p>
<p>sand</p>			
<p>fossil samples</p>		<p>Basic inexpensive set of example</p>	<p>http://www.teacherheavencatalog.com/geosafari_fossil_collection-p-173619.html (picture from Teacher Heaven)</p>






spring scale		To measure mass. It should have grams, but may also have newtons.	http://sargentwelch.com/ohaus-linear-spring-scales/p/IG0036772/ (picture from Sargent Welch)
microscopes		A few basic student microscopes with moveable stage; light source rather than a mirror; plug in. For more usage and practical application, use a cordless field microscope.	http://sciencekit.com/ig0020220/p/IG0020220/ (picture from Science Kit Boreal)
			http://sargentwelch.com/brock-magiscope/p/IG0038186/ (picture from Sargent Welch)
wind sock		These can be created in the class, but should have a real example as well. (on campus or by classroom)	
wind vane		These can be created in the class, but should have a real example as well. (on campus or by classroom)	http://sargentwelch.com/weather-vane/p/IG0042017/ (picture from Sargent Welch)

<p>anemometer</p>		<p>These can be created in the class, but should have a real example as well. (on campus or by classroom)</p>	<p>http://sargentwelch.com/anemometer/p/IG0042015/ (picture from Sargent Welch)</p>
<p>rain gauge</p>		<p>These can be created in the class, but should have a real example as well. (on campus or by classroom)</p>	<p>http://sargentwelch.com/e-z-read-jumbo-rain-gauge/p/IG0041995/ (picture from Sargent Welch)</p>
<p>moon model (phases)</p>		<p>A combination of models and posters used in conjunction with student created models is best.</p>	<p>http://sargentwelch.com/moon-phaser-lunar-cycle-model/p/IG0042709/ (picture from Sargent Welch)</p>
<p>moon phases - poster</p>		<p>A combination of models and posters used in conjunction with student created models is best.</p>	<p>http://www.teacherheavencatalog.com/learning_charts_phases_of_earths_moon-p-178854.html (picture from Teacher Heaven)</p>

Sun, Earth, and Moon system model		Sun, Earth, Moon specific focus	http://sciencekit.com/exploring-the-earth-moon-system-lab-material/p/IG0027206/ (picture from Science Kit Boreal)
		Solar System (3rd Grade)	http://sargentwelch.com/solar-system-model/p/IG0041950/ (picture from Sargent Welch)
cameras	N/A	Digital camera provide more flexibility, but disposable camers are good for outside, etc	
current technology (probeware, Flip video, etc)	N/A	Digital microscopes (ProScopes), Vernier Probeware add to the inventory that is already part of the Laptop Cart.	
compasses			http://sargentwelch.com/magnetic-compass/p/IG0038203/ (picture from Sargent Welch)
sound recorders	N/A	Anything to record sound including computer microphones and hand-held devices such as digital recorders, tape recorders, iPods, etc	
mirrors		Flat mirrors with safety edges. Mirror holders, such as in picture, are a bonus but not required.	http://sciencekit.com/plane-glass-mirrors-with-seamed-edges/p/IG0023883/ (picture from Science Kit Boreal)
calculators	N/A	School calculators made available	
stream table		Several of the Earth Science FOSS kits have small blue/green stream table trays. Each campus was provided one large regular stream table tray.	http://sciencekit.com/economy-stream-table-kit/p/IG0027043/ (picture from Science Kit Boreal)

prisms			http://sargentwelch.com/acrylic-prism-set/p/IG0038604/ (picture from Sargent Welch)
iron filings		Contained like the first picture is best for lower grades and can be used in upper grades. Loose, such as the bottom picture is good for 3-5 "mixtures"	http://www.teacherheavencatalog.com/iron_filings_set_of_5-p-187169.html (picture from Teacher Heaven)
			http://sciencekit.com/iron-filings/p/IG0024311/ (picture from Science Kit Boreal)

supplies for electrical circuits (including insulated wires, bulbs, switches, sound instrument such as a bell, etc)		Some sort of "switch" to create "open" and "closed" circuits	http://sargentwelch.com/knife-switches/p/IG0037102/ (picture from Sargent Welch)
		C and/or "D" sized batteries	
		Insulated Wire	
		Wire cutters / strippers	
		Some sort of instrument to produce sound created by the circuit	http://sciencekit.com/electric-doorbell/p/IG0024332/ (picture from Science Kit Boreal)
		This particular set has an electromagnet, sounder, buzzer, and bell	http://sciencekit.com/discover-the-bell%2C-buzzer%2C-and-switch/p/IG0024330/ (picture from Science Kit Boreal)
		flashlight bulbs	
		Iron nails (for electromagnets)	

Safety: Goggle Sanitizer			http://sargentwelch.com/safety-goggle-sanitizing-cabinets/p/IG0037741/ (picture from Sargent Welch)
Fire Blanket		Hung so that a person in a wheelchair can access the fire blanket	
Basic First Aid Kit		Basic on-site kit; does not replace a nurse	
Gloves		Recommend not using latex due to allergies	
Eye Wash			http://sargentwelch.com/eye-wash-fountain-fixture/p/IG0037765/ (picture from Sargent Welch)