



RECOMMENDED MINIMUM CORE INVENTORY TO SUPPORT STANDARDS-BASED INSTRUCTION

HIGH SCHOOL GRADES SCIENCES

High School Earth/Space Science

Quantity per lab group	Quantity per classroom/adjacent work area	Description
SAFETY EQUIPMENT		
	classroom set	Aprons
	1	Eye wash station
	1	Fire blanket
	1	Fire extinguisher
	1	First aid kit
	1/student	Goggles
	1	Goggles sanitizer (holds 36 pairs of goggles)
COMPUTER ASSISTED LEARNING		
	1	Television or digital projector
	1	VGA Adapters for various digital devices
1		Computers
EQUIPMENT/SUPPLIES		
<i>Environmental Equipment</i>		
	1	Atmosphere chart
1		Balance
	1	Camera
2		Compass
1		Conductivity tester
	10	Earth globes
1		Flora and fauna guide
	1	GPS receiver
2		Graduated cylinder, 100 ml
1		Graduated cylinder, 500 ml, clear plastic
1		Hand lens
1		Meter stick
	1	Ozone test kit
1 vial		ph paper (0-14)



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2		Tape measure, 50 m
1		Thermometers, calibration
	4	Total dissolved solids (conductivity) tester
2		Turbidity tube
	4	Water testing kit: alkalinity
	4	Water testing kit: dissolved oxygen
	4	Water testing kit: nitrate
	4	Water testing kit: salinity
	4	Water testing kit: transparency
<i>Geology/Geography Equipment</i>		
1		Carbon cycle poster
1		Color maps of Topography/Bathymetry, Seafloor age, Volcano locations, and Earthquake epicenters color coded by depth
1		Contour map set (ocean floor, topographic)
	1	Earth history model
	1	Earth's interior globe model
1		Fault block model set
	1	Fault map set (local and state)
1		Fossil set
	1	GPS navigation system
	1	Hydrologic map of California
	1	Kilowatt meter for tracking energy consumption
1		Lava lamp (illustrates convection)
	1	Magnetic field demonstrator
	1	Maps, USGS, assorted set
1		Microscope, dissecting
		Models of water molecules (with magnets)
	1 kg	Modeling clay
	1	Periodic Table of the Elements Chart
	1	Pate tectonic chart
	1	Renewable/non-renewable resources chart
	1	Seafloor spreading model
	1	Seismograph model
	1	Soil, sand and containers
1		Soil test kit (pH, nitrogen, phosphorus, and potassium, color comparator system)
1		Stream tables (w/ sand)
	1	Thermometer: Digital stick thermometers
	1	Thermometer: Non-contact thermometers
	1	United States raised relief map

Developed by California Science Teachers Association to support the implementation of the California Next Generation Science Standards. Approved by the CSTA Board of Directors November 17, 2015.



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Space Science Equipment

	1	Anatomy of the universe chart
	1	Telescope
	1	Constellation globe
1/student		Diffraction gratings or spectrometer
1/group		Digital spectrometer probeware
	1	Spectrum tubes for various elements (with power supply)
	1	Milky Way Galaxy model
	1	Moon chart
	1	Orbiter planetarium (sun/earth/moon orbit)
1 bag/kit		Polystyrene balls, assorted sizes
	1	Solar system chart
	1	Planet orbit (planetarium) model

COMPUTER-ASSISTED LEARNING

Internet access to digital libraries (i.e., Google Earth, Google Maps, GEON, NASA, NOAA, USGS, etc.)

FACILITIES

A source of water and access to waste disposal (i.e., lab stations/sinks) are essential for classrooms in which earth/space science is taught. Sinks should include sediment traps so that earth materials such as soils do not clog the sink.