

## Biology, Chemistry and Physics Equipment/Materials Lists Beginning 2010-2011

<b>Biology</b>	<b>Chemistry</b>	<b>Physics</b>	
<b>Knowledge and Skills:</b>	<b>Knowledge and Skills:</b>	<b>Knowledge and Skills:</b>	
The student, for at least 40% of instructional time, conducts laboratory and field investigations using safe, environmentally appropriate and ethical practices.	The student, for at least 40% of instructional time, conducts laboratory and field investigations using safe, environmentally appropriate and ethical practices.	The student, for at least 40% of instructional time, using safe environmentally appropriate and ethical practices.	
The student is expected to demonstrate safe practices during laboratory and field investigations.	The student is expected to demonstrate safe practices during laboratory and field investigations including the appropriate use of safety showers, eye wash fountains, safety goggles and fire extinguishers.	The student is expected to demonstrate safe practices during laboratory and field investigations.	
The student is expected to communicate valid conclusions supported by the data through methods such as lab reports, labeled drawings, graphic organizers, journals, summaries, oral reports and technology-based reports.	The student is expected to communicate valid conclusions supported by the data through methods such as lab reports, labeled drawings, graphic organizers, journals, summaries, oral reports and technology-based reports.	The student is expected to communicate valid conclusions supported by the data through methods such as lab reports, labeled drawings, graphic organizers, journals, summaries, oral reports and technology-based reports.	
<b>Scientific Investigation:</b>	<b>Scientific Investigation:</b>	<b>Scientific Investigation:</b>	
Calculators	Graphing Calculators	Scientific Calculators	
Computers	Computers	Computers	
Data-collecting Probes	Probes	Data Acquisition Probes	
Electronic Balances	Electronic Balances	Triple Beam Balances	
Meter Sticks		Meter Sticks	
<b>Content Specific:</b>	<b>Content Specific:</b>	<b>Content Specific:</b>	
Standard Laboratory Glassware	Sufficient Scientific Glassware	Course Apparatus, equipment, techniques and procedures	Mini Lamps (bulbs) and Sockets
Spreadsheet Software	Erlenmeyer Flasks	Multi-meters (current, voltage, resonance)	Discharge Tubes with power supply (H, He, Ne, Ar)
Microscopes	Pipettes	Batteries	Resistors
Various Prepared Slides	Graduated Cylinders	Clamps	Friction Blocks
Stereoscopes	Volumetric Flasks	Prisms	Trajectory Apparatus
Metric Rulers	Beakers	Collision Apparatus	Electrostatic Kits
Gel Electrophoresis Apparatuses	Burettes	Protractors	90-degree rod clamps
Micropipettes	Adequate supply of consumable chemicals	Hand-held visual Spectroscope	Metric Rulers
Hand Lenses		Hot Plates	Spring Scales
		Slotted and Hooked Lab Masses	Knife Blade Switches

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Celsius Thermometers		Bar Magnets	Celsius Thermometers
Hot Plates		Horseshoe Magnets	Graphing Technology
Notebooks/ Journals		Plane Mirrors	Laser Pointers
Timing Devices		Convex Lenses	Ballistic Carts or Equivalent
Cameras		Pendulum Support	Resonance Tubes
Petri Dishes		Power Supply	Periodic Table
Lab Incubators		Ring Clamps	Containers of Iron Filings
Dissection Equipment		Ring Stands	Rolls of White Craft Paper
		Stopwatches	Copper Wire
Models, Diagrams or Samples of Biological Specimens or Structures		Dynamics Demonstration Equipment	Spools of Nylon Thread or String
Specialized Cells including roots, stems and leaves of plant cells and animal cells such as blood, muscle and epithelium.		Cathode Ray Tubes with Horseshoe Magnets	Electromagnetic Spectrum Charts
		Carbon Paper	Slinky Springs
		Graph Paper	Wave Motion Ropes
		Magnetic Compasses	Real-time technology
		Polarized Film	Tuning Forks
<b>Implied and Mentioned Equipment:</b>	<b>Implied and Mentioned Equipment:</b>	<b>Implied and Mentioned Equipment:</b>	
Recycling Bins	Recycling Bins	Recycling Bins	Optics Kit
Broken Glass Disposal Container	Broken Glass Disposal Container	Wave Motion Rope	Pulley with Table Clamp
Aprons	Aprons	Aprons	Resonance Tube
Gloves	Gloves	Gloves	Ring Stand Screen
Fire Blanket	Fire Blanket	Fire Blanket	Four Inch Ring
Chemical Splash Goggles	Safety goggles	Chemical Splash Goggles	Stroboscope
Eye/Face Wash		Eye/Face Wash	Ripple Tank with Wave Generator
Fire Extinguisher		Fire Extinguisher	Ticker Timer
Dichotomous Keys	Periodic Table	Graduated Cylinders	Motion Detectors
		Optics Bench	Photogates
		Computer	Inclined Plane
		Broken Glass Disposal Container	Electroscope
		Radiation Monitor	Ballistic Pendulum
		Caliper	Micrometer

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<b>Biology</b>	<b>Chemistry</b>	<b>Physics</b>
<b>Safety Equipment:</b>	<b>Safety Equipment:</b>	<b>Safety Equipment:</b>
None specifically listed.	Chemical Splash Goggles	None specifically listed.
	Eye/Face Wash	
	Fire Extinguisher	
	Safety Showers	