

## Science Department (Grades 6 – 12) FY 2011 Budget Description

Vera Larkin, Curriculum Coordinator

The secondary science department (6-12) includes 13 teacher FTEs and a coordinator.

### Middle School

Six science teachers develop and teach the science curriculum at the middle school. Every grade level has two teachers who collaborate during weekly meetings to plan the program for their particular grade. Each teacher is responsible for four science classes and one enrichment/academic class per day. The curriculum is moving from a spiral approach to specific courses for each grade level so that the following subjects will be taught in 2010-2011:

Grade 6	Astronomy, Earth Science, Ecology
Grade 7	Life Science
Grade 8	Physical Science (force and motion, chemistry)

### High School

Massachusetts students are expected to pass three full year science courses in order to graduate from high school. Electives are offered for those students who wish to pursue more science. Seven science teachers carry a full load of five classes per semester. In addition, the science coordinator teaches one elective class. The following core subjects are taught:

Grade 9	Physical Science (introduction to physics, some chemistry)
Grade 10	Biology
Grade 11	Chemistry
Grade 12	Physics

Electives include; Anatomy and Physiology, Astronomy, Engineering, Forensic Science, Advanced Placement Biology, AP Chemistry and AP Physics.

**TABLE 1: SCIENCE BUDGET**

Item	2009-2010	2010-2011
Coordinator Salary (1)	1 FTE	1 FTE
Teacher Salaries (13)	13 FTE	13 FTE
Laboratory Equipment, Web Access and Classroom Supplies	\$9,600.00 (\$600/teacher) MS=\$4,800.00 + HS=\$4,800.00	Add \$100.00/teacher = \$1400.00 = \$11,000.00
Major Equipment Needed: 24 Electronic Balances	0	MS=\$4,200.00 HS= \$4,200.00
**Textbooks	HS: \$1700.00 (new students)	HS:\$1700.00 (added students) MS: Texts for grade 6
Explorelarning.com GIZMO	\$4,300.00	\$4,300.00
Repair and Maintenance	0	\$1,000.00
HS: Science League Buses	\$3,200.00	\$3,200.00
Addition of Biomedical Course (HS)	0	^Simulation Use Fee: \$3,000.00 ^Buses: \$5,000.00 ^Above will be covered by a grant for 2010-2011
IA to be lab assistant for MS science teachers	0	\$30.00/hr. =\$120.00 /week=\$4,800.00/year
Summer Workshop in physical science for grade 8 teachers	0	\$800.00
Totals:		

\*\* The number of freshmen students has increased from 2008-2009. Therefore, 20 additional physical science texts were purchased for 2009-2010. Twenty new biology textbooks must be ordered this spring (2010) in order to accommodate the higher number of students taking the class in the next school year.

**FY 2011 Anticipated needs (prioritized in order of listing):**

- Books for added students HS=\$1700.00
- Science Lab Equipment/Supplies HS=\$4,800.00 + MS= \$4,800.00
- Science League Buses HS=\$3,200.00
- Balances in addition to above HS=\$4,2000.00 + MS=\$4,200.00
- Repair and Maintenance HS + MS = \$1,000.00

**FY 2011 Possible reductions and/or Reallocations:**

- None