

LIVONIA PUBLIC SCHOOLS

Sheila A. Alles, Director

Academic Services Department

Date: April 27, 2011

To: Randy Liepa, Superintendent

From: Sheila Alles

Subject: ELEMENTARY SCIENCE MODULE REPLACEMENT RECOMMENDATION

I am requesting that the following elementary science module replacement purchase be placed on the May 2, 2011, Board Curriculum Committee agenda. Nanette Kaufman, elementary mathematics and science curriculum facilitator, and Mitzi Castelli, secondary mathematics and science curriculum facilitator, have completed the district's prescribed adoption process and the elementary school and middle school principals support the recommendation.

COURSE: KINDERGARTEN-SEVENTH GRADE SCIENCE

*Battle Creek Area Math and Science Center (BCAMSC) Science Units,
Battle Creek Area Math and Science Center (non-profit)*

Summary of BCAMSC Science Units

Program includes four kits per grade level – one Life Science, one Earth Science and two Physical Science. Each kit is designed for a 8-10 week unit (one marking period, teacher edition, student journal, consumables, organism cards (Life Science only), student trade books (non-fiction, color, paperback), on-line access to website for teachers (password protected) to get updates and revisions, kits integrated reading and writing in all units and some include math and social studies.

SCIENCE UNIT COMPONENTS:

Kindergarten

Kindergarten resources include four science units (one Life Science, one Earth Science and two Physical Science), teacher's guide, student journals, consumable packs, organism cards (for Life Science only) and student trade books

Total
\$49,792

First Grade

First grade resources include four science units (one Life Science, one Earth Science and two Physical Science), teacher's guide, student journals, consumable packs, organism cards (for Life Science only) and student trade books

\$45,183

Second Grade

Second grade resources include four science units (one Life Science, one Earth Science and two Physical Science), teacher's guide, student journals, consumable packs, organism cards (for Life Science only) and student trade books

\$47,982

Third Grade

Third grade resources include four science units (one Life Science, one Earth Science and two Physical Science), teacher's guide, student journals, consumable packs, organism cards (for Life Science only) and student trade books

\$63,574

<u>Fourth Grade</u>	\$64,510
Fourth grade resources include four science units (one Life Science, one Earth Science and two Physical Science), teacher's guide, student journals, consumable packs, organism cards (for Life Science only) and student trade books	
<u>Fifth Grade</u>	\$32,580
Fifth grade resources include four science units (one Life Science, one Earth Science and two Physical Science), teacher's guide, student journals, consumable packs, organism cards (for Life Science only) and student trade books	
<u>Sixth Grade</u>	\$53,798
Sixth grade resources include four science units (one Life Science, one Earth Science and two Physical Science), teacher's guide, student journals, consumable packs, organism cards (for Life Science only) and student trade books	
<u>Seventh Grade</u>	\$61,666
Seventh grade resources include four science units (one Life Science, one Earth Science and two Physical Science), teacher's guide, student journals, consumable packs, organism cards (for Life Science only) and student trade books	
TOTAL	\$419,085

TWO-YEAR RECOMMENDED IMPLEMENTATION PLAN

A two-year implementation plan is being recommended. In the first year, each grade would receive one of each of the two Physical Science units. In the second year, each grade would receive the Life Science unit and the Earth Science unit. Schools with center programs would receive additional kits. Two full days of professional development for each grade level would be provided each year, one day of training per science kit per grade level.

TEACHER AND STUDENT RESOURCES

Year 1 Costs	\$211,268	Two Physical Science units per grade level, K-7. Teacher edition, student journal, consumable pack, classroom set of student trade books for Physical Science unit.
Year 2 Costs	\$217,029	One Life Science unit and one Earth Science unit per grade level. Teacher edition, student journal, consumable pack, organism card for Life Science unit, classroom set of student trade books and miscellaneous replacement items (\$9,212).
Estimated Annual Expenses – Year 3 and Beyond	* \$69,360	Consumable packs, organism cards, replacement of lost/damaged items in the units.

* The cost reflects refurbishing and replacing expenses using BCAMSC. We are currently conducting a cost analysis of refurbishing the kits using district staff members and making purchasing locally rather than through BCAMSC. Also, inventorying existing science items, consumable and non-consumable, that are available in our Warehouse for use in replenishing new kits. This summer, someone could be hired to dismantle the current science modules and save any available consumable and non-consumable items for future use.

Shipping/Handling is estimated at 4%.