

Parkrose School District

Curriculum Recommendation High School Science

PROPOSAL:

Based on the work of the Parkrose High School Science department, the following materials recommendation is being proposed to the School Board for purchasing approval and adoption:

Curriculum Materials for High School Science:

Chemistry textbook

Chemistry in the Community (CHEMCOM) textbook

Anatomy and Physiology textbook

Geology textbook

RATIONALE FOR SELECTION:

1. Parkrose High School does not have any current text books, and the text books we do have do not have enough to supply each student enrolled in a course a book. Some courses we offer have never had text books. The text books we do have lack teacher editions. As a department we would like to stay current with science concepts and information and feel that by having class sets of text books, the department could better support the state benchmarks.
2. By using current text, we can prepare students for the rigors of college courses and support reading and writing conventions with are school, district and state goals.
3. Current text would provide a foundation for content and a resource for independent study and review. Also by being able to offer each student the use of a text book, they could practice reading expository text and have access to key vocabulary terms that are defined, explained in various ways with pictures and graphics that are current. This offers a tool for all students – especially those that do not have access to technology outside of school.
4. New text books would also provide up to date research, technological advancements and resources to visit for extended learning and further research. Career guidance and encouragement is enhanced with current text as well.

RATIONALE STATEMENTS: The following statements provide the core rationale for this materials recommendation.

1. Materials are comprehensive
2. Meaningful and effective intervention materials are included
3. Instruction and use of text in multiple modes will be presented
4. Materials are user-friendly and student-friendly and accessible for all students, teachers, and families
5. Materials cover full breadth of science state standards at the high school level
6. Instruction is balanced between conceptual understanding, problem solving and scientific inquiry.

7. Differentiated instruction is supported by materials
8. Scientific inquiry, lab and supplemental materials and engineering and design materials are provided and easily adapted to fit learning needs and desired outcomes.

Representatives Involved in Science Materials Review:

Angie Amato - PHS
Kerryn Henderson - PHS
Jennifer Handsaker - PHS
Joan Moura - PHS
Karen Black – PHS

Text book adoption / materials review process:

STEP 1: Assembled a team (December 2010)

- Team consists of current science department members who are familiar with current science standards and student needs.

STEP 2: Assessed current materials (January 2011)

- The team created a list of needs and then prioritized them.

STEP 3: Requested sample materials (January 2011)

- The team looked over the suggested list of text appropriate for each course/level and requested the ones needed to make a genuine decision.

STEP 4: Reviewed sample materials (February 2011)

- Narrowed our materials down to make our final suggestion based on team input, usability, and cost.

STEP 5: Submitted a draft of our proposal (March 2011)

- Submitted a draft with 2 possible proposals based on budget.

PROFESSIONAL DEVELOPMENT AND SUPPORT

Professional development occurred primarily through PLC's and with teachers who teach the same subject. This team would like to request a full day of professional development for the Geology teacher, Anatomy and Physiology teacher, and the Chemistry and CHEMCOM teacher to preview the text and apply it to the scope and sequence of the course.

BUDGET ESTIMATE

CHEMCOM: Chemistry in the Community CHEMCOM (Fifth Edition)
American Chemical Society
W. H. Freeman Publishers
ISBN-13: 978-0-7167-8919-2
ISBN-10: 0-7167-8919-1
Alexander, Susan <salexander@bfpwpub.com>
(\$95.00)

CHEMISTRY: Chemistry
Wilbraham, Staley, Matta, Waterman
Pearson Publishers - 2012 copyright
ISBN-13: 978-0-13-252576-3
ISBN-10: 0-13-252576-3
<phsecondarycs@custhelp.com>
<http://k12oasis.pearson.com>
Phone: 800-848-9500
(\$82.47)

GEOLOGY: Earth Science: Geology, the Environment, and the Universe.
Glencoe (McGraw Hill) Science book
Copyright 2008
Authors: Borrero, Hess, Hsu, Kunze, Leslie, Letro, Manga, Sharp, Snow, Zike.
ISBN is 978-0-07-874636-9
MHID is 0-07-874636-1
[Glencoe 800-334-7344](tel:800-334-7344) acct#394192
(\$77.97)

ANATOMY and PHYSIOLOGY: Fundamentals of Anatomy and Physiology(Ninth Edition)
Martini/Nath/Bartholomew
Copyright: 2012
(High School Printing)Publisher- Benjamin Cummings-Pearson.
www.PearsonSchool.com
ISBN-13: 9780321709332
ISBN-10: 0321709330
(\$218.67)

Budget Estimate Outline

The Science Department's textbook choices would be to purchase the following based on the rationale that we would have a classroom set of textbooks and also have extras. Each student would have an opportunity to learn how to use a text book and prepare all students for using a college level text outside of class, while supporting district WICR strategies and reading in content areas:

60 student copies and 2 teacher editions:

CHEMCOM: Chemistry in the Community CHEMCOM (Fifth edition)
Total = \$5,900.00

CHEMISTRY: Chemistry
Total = \$5,148.14

ANATOMY and PHYSIOLOGY: Fundamentals of Anatomy and Physiology(Ninth Edition)
Total = \$13,320.20

GEOLOGY: Earth Science: Geology, the Environment, and the Universe.
Total = \$4,873.68

Approximated Total Shipping/Handling
Total = \$2,646.00

Grand Total: \$31,888.02