



Science and Health Textbook Adoption 2006 Facilitators Report

Background

In June 2005, approximately 100 level 2 and level 3 teachers met for five days in Santa Fe with the New Mexico Public Education Department to evaluate science textbook for the core courses. Two scores were given to each text based on 1) alignment to the New Mexico standards and benchmarks and 2) an analytical rubric including criteria such as readability, pedagogy, parent components. Any text approved in this process had to score at 80% to be included in materials adopted for use by students in New Mexico. The list of approved materials issued by the Public Education Department gives a starting point for districts to begin selecting their materials. Jennifer Huntsberger, a GISD Instructional Specialist, facilitated a PED group evaluating high school biology textbooks, and assisted PED in refining the evaluation process. She has facilitated the science adoption process for GISD.

GISD Materials Evaluation Process

The standards alignment and rubric forms used in the PED evaluation process were modified for use in GISD (attached).

Elementary

A representative district-wide teacher committee from grades 4-6 evaluated materials in English and Spanish. (Most of the committee members are part of an *Enhancing Education Through Technology* project, grades 3-8, that focuses on integrating science, technology, and literacy in a bilingual setting). Teachers considered these criteria:

- The highest correlation to the NM Science Standards and Benchmarks for the grade level
- Parallel materials, including leveled readers, in English and Spanish
- Ability to integrate with the Balanced Literacy Approach and language development
- Ability to integrate with the Gadsden Mathematics Initiative
- Approach to scientific inquiry

Secondary

The secondary schools conducted their evaluations on-campus and then had representatives meet to reach consensus regarding the following:

- The text for each core course has at least an 80% correlation* to the NM Science Standards and Benchmarks
- The same text to be used by core courses in all secondary schools
- A bilingual course to use the same text in Spanish as is being used in the English dominant course.
- Special Education programs to select texts appropriate for their student's needs.

*Most publishers are just now releasing texts that integrate Physical Science and Earth Science; these were not evaluated by the Public Education Department. Our high school teachers conducted the correlations

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2/15/2006*

Recommendations

GISD teachers have selected materials that provide the best alignment to the state standards and meet the needs of our students. All materials in grades 4-10 are available in both English and Spanish; they integrate reading strategies, mathematics, and balance direct instruction with scientific inquiry. Professional Development, at no-cost, is available from each publisher and can be held during Fall semester 2006.

Elementary Science

The Grade 4-6 Textbook Adoption committee recommends that the Gadsden Independent School District adopt **Scott-Forseman Science Materials for grades 4-6 to include teacher kit, student texts, leveled readers, and demonstration kits.** In addition, **classroom activity kits are requested, one per grade level, at each school site.**

First and Second Choices		Combined Scores*		
		Grade 4	Grade 5	Grade 6
1	Scott-Forseman	93	93	96
2	Houghton Mifflin	69	67	90

- (Standards Alignment x 0.8) + (Rubric Score x 0.2)

Secondary Science

Middle Schools Grades 7 and 8 (English and Spanish)

First and Second Choices		Combined Scores*	
		Grade 7	Grade 8
1	McDougal Littell	89	97
2 GMS/CMS	Glencoe McGraw Hill	NA	68
2 STMS	Prentice Hall	85	86

- (Standards Alignment x 0.8) + (Rubric Score x 0.2)

The Middle School English and bilingual teachers recommend the **McDougal-Littell Middle School series**; it is the most current on the market. It provides three levels of support, below, on-grade, and advanced, for labs, reading study guides, unit projects, reading support, assessment, and English learners. It also has New Mexico specific test preparation, labs and problem-based investigations in addition to on-line editions, on-line activities and tutorials. Several LCD projectors are included (1 per 150 single-volume editions) in the free materials to enable technology integration. The texts are available as a 15 volume modular series (Spanish and English) or as topic bound texts (English only). Seventh grade will adopt the Life Science text and each teacher will receive class sets of two additional modules in Earth and/or Physical Science. Eighth grade will adopt the Physical Science text and each teacher will receive class sets of two additional modules in Earth and/or Life Science. This allows all teachers to have the text resources needed to meet the New Mexico science standards.

To provide additional reading support, it is recommended that we supplement with one set of the **sixth-grade Scott-Forseman leveled readers** for each school's book room. This gives the teachers access to on-line leveled readers grades K-6.

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Instructional Specialist
2/15/2006*

High Schools

Course	Core/ Elective	GHS/ STHS/CHS/DP	Publisher	Text	Score
Integrated Science 1 and 2 (English and Spanish)	C	GHS/ STHS/CHS/DP	Glencoe	Physical Science with Earth Science 0-07-868554-0	85
Integrated Science 1 and 2 (English and Spanish)	C	GHS/ STHS/CHS/DP	Glencoe	Dynamics of Life 0-07-873244-1	94
Biology (English and Spanish)	E	GHS/ STHS/CHS/DP	Glencoe	Dynamics of Life 0-07-873244-1	94
Biology (SPED)	E	GHS/ STHS/CHS/DP	AGS	Biology: Cycles of Life	75*
Chemistry	E	GHS/ STHS/CHS	Glencoe	Matter and Change 0-07-866419-5	94
Physics	E	GHS/ STHS/CHS	Glencoe	Physics: Problems and Principles 007-845814-5	94
Animal Science 1	E	DP/GHS course only	Delmar	Modern Livestock and Poultry Production 6th ed.	NA
Animal Science 2	E	DP/GHS course only	Delmar	Small Animal Care and Management 2nd ed.	NA
Environmental Science	E	DP/GHS course only	Holt	Environmental Science 0-03-039074-5	NA
Astronomy	E	GHS course only	McGraw Hill	Astronomy: Journey to Cosmic Frontier 0-07-299181-X	NA
Anatomy and Physiology	E	GHS/STHS	Mosby	Anatomy and Physiology 0-323-03192-7	NA

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Honors Biology 2 (Pre AP)	E	GHS/STHS	Pearson/Benjamin Cummings	Biology: Concepts & Connections 0-13-193480-5	NA
Honors Biology 2 (Technology-based)	E	STHS course only	Prentice Hall	Biology 0-13-1950538-4	NA
Honors Physics 2	E	GHS course only	Prentice Hall	Physics 6 th Ed 0-13-184661-2	NA
Honors Chemistry 2	E	GHS course only	Houghton/Mifflin	Chemistry 0-618-22156-5	NA
AP Biology	E	GHS/STHS	Pearson/Benjamin Cummings	Biology 7 th Edition 0-8053-7171-0	NA
Health (Unit in PE)	E	GHS/STHS	Glencoe	Foundations of Personal Fitness 0-07-845127-2	82
Athletic Training 1	E	GHS/STHS	Thomson/Delmar	Introduction to Sports Medicine and Athletic Training 1-4018-1199-x	NA
Athletic Training 2	E	GHS/STHS		Fundamentals of Athletic Training/Human Kinetics 0-4360-5258-5	NA

Special Education Middle and High Schools

*Special Education teachers recommend the **AGS Publishing** series for all courses that they teach.

Secondary Health, Grades 7-9

Health concepts are included as a unit in PE courses at all secondary schools.

Glencoe Teen Health Course 2 is recommended for 7th grade; **Glencoe Teen Health Course 3** is recommended for 8th grade; and **Glencoe Foundations of Personal Fitness** is recommended for all high schools. All materials are available in both English and Spanish.

Publisher Websites

<http://www.glencoe.com/catalog/index.php/program?c=16&s=509&p=1653&t=1>

<http://www.glencoe.com/catalog/index.php/program?c=16&s=457&p=1627>

<http://www.mcdougallittell.com/ml/science.htm?level2Code=MS&lvl=3>

http://www.scottforesmancatalog.com/program_multiple.cfm?site_id=18&discipline_id=814&subarea_id=0&program_id=20501

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