



**Recommendations  
for  
Elementary/Secondary  
2006 Mathematics  
Textbook Adoption**

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# **Mathematics Textbook Adoption Elementary and Secondary Committee Recommendations**

## **Intent and Purpose**

Mathematics instruction is intended to enable all students to understand, utilize, communicate, and appreciate mathematics as a tool in everyday situations in order to become lifelong learners and productive citizens. This is accomplished through the development of an organized curriculum that is aligned with the Virginia Standards of Learning and national education standards. As part of that process, textbooks are periodically reviewed and decisions are made about which textbooks best promote student learning. The purpose of the elementary and secondary textbook adoption committees were to establish criteria for selection, screen textbooks from the Virginia State Adoption list, and make adoption recommendations to the School Board.

## **Criteria for Selection:**

All elementary and secondary mathematics teachers had the opportunity to preview, use, and rate the mathematics textbooks on the Virginia State Adoption List. The Virginia Department of Education Profile Sheet was utilized in rating the textbooks. Samples of these documents can be viewed at

[http://www.pen.k12.va.us/VDOE/Instruction/mat\\_review\\_main.html](http://www.pen.k12.va.us/VDOE/Instruction/mat_review_main.html).

The state approved textbooks were rated according to the following criteria:

- Alignment to the Virginia Standards of Learning and the National Council of Teachers of Mathematics Standards
- Consistent with the philosophy and goals of Newport News Public Schools
- Inclusion of process indicators for mathematics (problem solving, technology, communication, representation, reasoning and algebraic thinking)
- Organization and presentation of content (integration of learning technologies, accurate, free of bias, promotes high expectations, logical)
- Emphasis on the use of effective instructional practices and learning theories
- Provision for support in the area of technology

Note: During the initial phases of the textbook adoption process, the committees were encouraged to focus only on the teacher and student editions, not the supporting materials offered by the publishers. In the final phase of deliberations in which textbook recommendations were made the committees elected to look at the broader package of support materials to determine what was included and what might be most helpful to teachers.

## **Adoption Procedure:**

- Preview materials from the state adopted list were displayed at each school site and the School Administration Building.
- Suggestions were solicited from principals for members to serve as representatives on the adoption committee.

- Committee members and leads distributed adoption checklists to all mathematics teachers.
- Committee members reviewed the state assessments of the ratings for the top publishers – four for elementary and three for secondary.
- Committee members compiled school results and narrowed the selection down to four major elementary publishers and three major secondary publishers.
- Committee members met in teams to review and rate the books using the Virginia Department of Education Standards of Learning profile sheets.
- Committee members attended meetings with representatives from the major state approved publishers.
- Teacher feedback sheets were tallied and committee members' recommendations were reviewed.

Based on four months of work and collaboration, the committees came to a final consensus during the week of March 28, 2006. The recommendations of the elementary and secondary committees follow.

# Mathematics Textbook Adoption Elementary and Secondary Committee Recommendations

## Elementary School

### Kindergarten through Grade 5

Scott Foresman – Addison Wesley Mathematics; Pearson Education, Inc., 2006

With “Investigations”- Joint Usage Plan

The Scott Foresman series has a good integration link with literature, promotes journal writing in mathematics, and provides ties with social studies skills such as use of maps and data collection. Scott Foresman was selected for the following features: strong SOL alignment; teaching for understanding activities; embedded assessment opportunities; systematic intervention and remediation; and algebraic thinking and problem solving in each unit. It also has an extensive technology component.

### Technology Applications and Support

#### Elementary School – Scott Foresman

The following is a brief list of the types of technology resources and applications available from the grade level textbook selections:

- Math E-Tools CD ROM (Electronic Manipulative and Software Tools)
- Electronic Teacher Edition CD Rom
- Teacher Online Access Package (Class set of site licenses)
- Website: [www.scottforesman.com](http://www.scottforesman.com)
- Exam View Test Generator
- Math Online Intervention Access Package
- Knowledge Box CD Rom

## Middle School

### Grade 6

Holt Middle School Math; Holt, Rienhart & Winston, 2006

### Grade 7

Holt Pre Algebra; Holt, Rienhart & Winston, 2006

### Grade 8

Holt Pre Algebra; Holt, Rienhart & Winston, 2006

The Holt series was selected for the following features: technology integration; flexible teacher support; problem solving strategies; focus on note taking; the variety of activities; and Standards of Learning alignment. This series also has an “Are You Ready?” section at the beginning of each chapter to determine any skill to be re-taught before proceeding to new skills.

## **Additional Materials Provided**

### **Middle School - Holt**

Online Edition: one per student edition purchased, life of contract, with full implementation

Teacher Resources: one per teacher

Teacher's Edition (includes CD)

One-Stop planner CD ROM with test and practice generator

Standardized test prep workbook and teacher edition

Test prep tool kit

Student edition CD-ROM

Solution key

Overhead manipulative kit

Teaching transparencies

Resources: per student edition purchases, renewable, life of contract

Student Know IT Notebook

Homework and Practice Workbook

VA student edition (one class set) for each teacher

## **High School**

Algebra I; Prentice Hall, 2006

Geometry; Prentice Hall, 2006

Algebra II; Prentice Hall, 2006

Prentice Hall was selected for the following features: student friendly text; ease of use for new teachers; consumable note taking guide; supplemental materials; and technology integration.

Pre Calculus Enhanced with Graphing Utilities; Prentice Hall, 4<sup>th</sup> edition, 2006

This book was selected because of its proven track record. It is a newer edition of the book currently used in Newport News.

## **Additional Materials Provided**

### **High School – Prentice Hall**

Two teacher editions for each teacher

30 free student textbooks for every 100 student editions purchased

Daily note taking guide for each student

Practice workbook for each student

EZ Data Scoring System per building

CPS system for every 250 student editions purchased

## **Trigonometry**

Trigonometry; Pearson Education, Inc. – Addison Wesley, 8<sup>th</sup> edition, 2005

Addison Wesley was selected for the following reasons: organization, sequence of skills, and applications for use in the real world.

## **AP Calculus**

Calculus: Early Transcendentals Single Variable; Wiley, 8<sup>th</sup> edition, 2005  
(Pending approval from AP Central)

## **Computer Courses**

### **AP JAVA**

Fundamentals of Java; Thompson Course Technology, Third Edition, 2007  
(Pending approval from AP Central)

### **C ++**

Object- Oriented Programming Using C++; Thompson Course Technology, Third Edition, 2007

### **Visual Basic**

Programming with Microsoft Visual Basic; Thompson, Third Edition, 2005  
This text comes with 6 program disks per book.

All computer books were chosen to access the most recent information available in computer technology.

### **AP Statistics**

Stats: Modeling the World; Pearson Education, Inc. – Addison Wesley; Second Edition, 2006  
(Pending approval from AP Central)

### **IB Mathematics**

Mathematics SL; Haese & Harris, 2006  
Mathematics HL Core; Haese & Harris, 2006  
Mathematical Studies; Haese & Harris, 2006

This series is written specifically for the International Baccalaureate Program.