



## Middle and High School Math and Science Curriculum Solutions

Concept. Understanding. Achievement. These educator-evaluated products provide comprehensive content, tools, and activities that students can use to investigate complex math and science concepts. The standards-based products help students develop critical conceptual knowledge and a deep understanding of higher mathematics; promote essential science inquiry and problem-solving skills; and empower students with research, organization, and communication tools.

### Cross-Curricular and Productivity



#### **Bento**, FileMaker, Inc. (6–12)

Bento is a new personal database from FileMaker that's as simple to use as a Mac. It includes predesigned templates to help students easily organize large quantities of information, such as classroom assignments, historical data, and more.



#### **BrainPOP**, BrainPOP (3–12)

Educators rely on this award-winning program to enhance their lessons with exceptional animated educational content. BrainPOP covers hundreds of standards-aligned topics supported with engaging movies and interactive assessment tools.



#### **Britannica Online School Edition**, Encyclopaedia Britannica Inc. (K–12)

Britannica Online School Edition is expertly designed for K–12 students and educators, offering a single, districtwide reference solution. Three age-appropriate levels of content are available: Elementary, Middle, and High School.



#### **InspireData**, Inspiration Software, Inc. (4–12)

InspireData builds critical data literacy skills and engages students. Students actively explore and analyze data using dynamic Venn, bar, stack, pie, and axis plots to interpret information and draw conclusions.



#### **iWork**, Apple Inc. (K–12)

iWork includes Pages, a streamlined word processor and page layout program; Keynote, for creating cinema-quality presentations; and Numbers, an innovative new spreadsheet for calculating and organizing data.



#### **netTrekker**, netTrekker (K–12)

netTrekker, the leading educational search tool for K–12 students and educators, connects you to the most relevant, standards-aligned digital resources to personalize learning for every student.



#### **Math and Science Gizmos**, ExploreLearning (3–12)

ExploreLearning Gizmos are award-winning, online simulations that drive conceptual understanding of mathematics and science.



#### **Mathematica for the Classroom**, Wolfram Research, Inc. (9–12)

Mathematica for the Classroom helps educators quickly prepare classroom demos, quizzes, and homework assignments and enables them to visually reinforce important concepts with full-color graphics and interactive exercises.

## Cross-Curricular and Productivity (continued)



### **NoteShare**, *AquaMinds, Inc.* (6–12)

This application allows students to create, publish, and share media-rich, multipage notebooks. Students can instantly share notebooks with students in the same building—or across the globe—for presenting, viewing, and editing information.



### **2010 World Book**, *Software MacKiev* (K–12)

This comprehensive encyclopedia includes thousands of new and updated articles, maps, and photos; a collection of kid-safe, continuously updated webcams from around the world; content that can be viewed on an iPod; and more.



### **Yenka**, *Crocodile Clips Ltd.* (5–12)

Yenka is powerful and engaging software that lets teachers use and edit an ever-growing library of activities for math, science, technology, and computing.

## Math



### **ClassTools: Math**, *Apex Learning Inc.* (6–12)

Standards-based and modular in design, ClassTools: Math provides comprehensive online instructional content for secondary mathematics. This media-rich and interactive courseware promotes exploratory learning and provides real-time assessment.



### **Measurement in Motion**, *Learning in Motion* (6–12)

This dynamic tool lets students measure and analyze anything that can be pictured or filmed. The program uses real-time simulations to develop graphing and algebraic concepts. Students connect concrete situations in the movies directly to visual data and symbolic representations.



### **The Geometer's Sketchpad**, *Key Curriculum Press* (3–12)

This award-winning program is a mathematics visualization and exploration environment that spans the mathematics curriculum. Students construct objects, figures, and diagrams and then explore their mathematical properties. Objects can be changed while keeping the mathematical properties the same, allowing learners to test mathematical hypotheses.

## Science Software



### **ClassTools: Science**, *Apex Learning Inc.* (6–12)

This standards-based, innovative online courseware offers an inquiry-based narrative approach that helps students think like scientists. Modular in design, the program lets students explore scientific concepts through animations and rich multimedia.



### **EarthBrowser**, *Lunar Software, Inc.* (K–12)

EarthBrowser provides a constantly updated model of the Earth that enables students to conduct real-time investigations into Earth and atmospheric processes. It includes high-resolution base maps, satellite overlays, hurricane tracking, and more.



### **Froguts**, *Froguts, Inc.* (3–12)

This comprehensive virtual dissection tool promotes inquiry and integrates anatomy, physiology, and ecology. Froguts uses audio narration, captioned text, and realistic 3D simulation to deliver key concepts.



### **Starry Night Middle School and Starry Night High School**, *Simulation Curriculum Corp.* (6–8, 9–12)

These programs introduce astronomy through innovative lessons with stunning 3D graphics and multimedia to make even the most complex astronomy topic easy to learn and understand. Over 25 modular lessons are correlated to learning standards.



### **3D Weather Globe & Atlas**, *Software MacKiev* (3–12)

With this program, real-time cloud cover, temperatures, and seven-day forecasts give students “weather on their desktops.” Using the highest resolution NASA satellite maps, students can locate cities, plot travel routes, identify time zones, and more.

## Science Tools



### **PASCO SPARKscience Bundle**, *PASCO scientific* (6–12)

PASCO's SPARKscience bundles are designed to guide middle and high school students through meaningful, hands-on science activities. Bundles include SPARKvue software, SPARKlabs (standards-based electronic workbooks that seamlessly integrate content with data collection and analysis), teacher instructions, and necessary sensors.



### **ProScope HR USB Microscope and CSI Lab**, *Bodelin Technologies* (K–12)

This high-resolution, handheld USB microscope gives students the ability to investigate science phenomena at a microscopic level. Students can easily capture electronic images and video of their investigations. The lab includes the ProScope HR, a variety of lenses, lens tube and C-mount adapters, a precision stand, and a carrying case.

## Comprehensive Curriculum Products



### **Accelerated Math**, *Renaissance Learning* (K–12)

Accelerated Math is the premier math management software. With this program, teachers can personalize math practice for every student and get valuable information to guide students' math progress.



### **Destination Math**, *Houghton Mifflin Harcourt Learning Technology* (K–12)

Destination Math focuses on the symbols and rules of algebra and how they are used to represent relationships. More advanced lessons investigate polynomial expressions and operations in problems that arise from real-life situations to help students refine and expand their skills.