

VERMONT INSTITUTE FOR SCIENCE, MATH, AND TECHNOLOGY



**PUBLISHED SCIENCE,  
MATHEMATICS,  
AND TECHNOLOGY PROGRAMS**

*Which Are Fully Aligned With*

**VERMONT'S FRAMEWORK OF STANDARDS  
AND LEARNING OPPORTUNITIES**



The materials included in the accompanying list were reviewed by a team of Vermont classroom teachers from 1996 through 1998. Over the three year period, team members were instrumental in devising the rubrics used for review in addition to their role in reviewing individual programs for alignment. Each team member received training in the use of the review criterion and scoring rubrics to develop consistency between reviews. Without the help of the following individuals, this work would not have been possible.

**1997-8 Review Team**

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Linda Barker, West Rutland School  
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**1996-7 Review Team**

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Vermont Educators,

Vermont's Framework of Standards and Learning Opportunities recommends numerous changes in content, assessment, and instruction in Vermont classrooms. The changes in topics and recommended practices are both small and large. Combined with the practice of "action planning" based on assessments, these changes easily comprise the largest and most significant reform in the history of math and science education in Vermont.

These recommendations require significant changes in the classroom: revised lesson plans, new materials, and changes in instructional techniques to align with the Framework and provide continuity with other classrooms and grades throughout the system. The purchase of new curricula that reflect the new national and state standards can save teachers a significant amount of time. But there are many programs available from countless publishers, including a growing number which proclaim they align with new standards. Which of these claims are valid?

In the last three years VISMT, with the help of a team of 24 Vermont teachers, has examined publisher's claims and reviewed program materials (of a year or more in length), looking for those that align fully with Vermont's Framework. In this process, we have found that most published materials currently available on the market today fall into three categories:

**NO ALIGNMENT**

- materials written without any attention to the standards. Commonly, these materials are ones written before national mathematics and science standards were adopted. There are many, however, that were written in the last five years.



**PARTIALLY ALIGNED**

- materials written to address only the new content standards. In failing to implement best practices in equity, assessment, and pedagogy these materials fall far short of implementing much of the intent of standards reform.

**PARTIALLY ALIGNED**

- materials incorporating both the content standards and best practices (the “Learning Opportunities” in the Vermont Framework). These materials are listed on the following pages. We believe that this list is complete, effective October 1998.

Regardless of the excellence of the materials on the accompanying pages, they should not be exclusively relied upon to support classroom changes. Effective use of these materials requires a multiyear multifaceted professional development program that supports classroom teachers in teaching new content and using new assessments and pedagogy. Schools seeking help in making the changes to standards-based math, science, and technology education should contact VISMT (802-828-0060).

*\* For information about VISMT’s review process, to view copies of the detailed reviews for individual programs on the list, and for helpful information about the programs themselves (such as schools using the programs, comparative costs, etc.) visit VISMT’s web site at <http://www.vismt.org> Click on Program Areas, then click on Curriculum.*



# *Fully Aligned* **SCIENCE, MATHEMATICS, AND TECHNOLOGY PROGRAMS**

<b>ELEMENTARY SCIENCE</b>	<b>MIDDLE SCHOOL SCIENCE</b>	<b>HIGH SCHOOL SCIENCE</b>
◆ DASH	◆ FACETS	◆ Active Physics*
◆ FOSS*	◆ FAST	◆ Applications in Biology/Chemistry
◆ Insights*	◆ Integrated Science	◆ Biology: A Community Context*
◆ Science & Technology for Children*	◆ Integrated Math, Science, & Technology (IMaST)*	◆ BSCS Biology: A Human Approach*
◆ Science for Life and Living*	◆ Middle School Science & Technology*	◆ ChemCom: Chemistry in the Community*
	◆ Prime Science (grades 6-10)*	◆ Insights in Biology*
	◆ Science 2000*	◆ Prime Science (grades 6-10)*
	◆ Science Interactions	◆ Science Links

\* *The most recent generation of NSF funded and recommended programs.*

\*\* *ChemCom is considered to have 'some' alignment with the Framework. If adopted we feel it could be reasonably supplemented to be brought into good alignment.*



**ELEMENTARY  
MATHEMATICS**

- ◆ Box It Or Bag It Mathematics
- ◆ Everyday Math\*
- ◆ Investigations in Number, Data, & Space\*
- ◆ Mathland
- ◆ Math Trailblazers\*
- ◆ Opening Eyes to Mathematics

**MIDDLE SCHOOL  
MATHEMATICS**

- ◆ Connected Mathematics\*
- ◆ Interactive Mathematics
- ◆ Integrated Math, Science, & Technology (IMaST)\*
- ◆ MathThematics (STEM)\*
- ◆ Mathematics in Context\*
- ◆ Mathscape: Seeing and Thinking Mathematically
- ◆ Visual Math

**HIGH SCHOOL  
MATHEMATICS**

- ◆ Calculus: Concepts and Applications
- ◆ Contemporary Mathematics in Context\*
- ◆ Discovering Geometry
- ◆ Integrated Math (SIMMS): A Modeling Approach Using Technology\*
- ◆ Interactive Mathematics Program (IMP)\*
- ◆ Math Connections\*
- ◆ Mathematics: Modeling our World\*
- ◆ Pacesetter Mathematics: Precalculus Through Modeling

**MIDDLE SCHOOL  
TECHNOLOGY**

- ◆ Technology

**HIGH SCHOOL  
TECHNOLOGY**

- ◆ Technology

*November 1, 1998*



## PUBLISHERS

**NOTE:** *The names and numbers on this list are subject to frequent change. If you cannot reach the person indicated, contact the publisher's customer service department or connect to VISMT web site at URL <<http://www.vismt.org/pub/PubList.pdf>> for the most up to date contact information.*

### CAROLINA BIOLOGICAL SUPPLY COMPANY

#### **SCIENCE & TECHNOLOGY FOR CHILDREN (STC)** *(Elementary Science)*

contact: Gena Wofford

phone: 1-800 227-1150 Ext. 5265

web address:

[www.carolina.com/STCpg.htm](http://www.carolina.com/STCpg.htm)

### COLLEGE BOARD

#### **PACESETTER MATHEMATICS: PRECALCULUS THROUGH MODELING** *(High School Mathematics)*

contact: Steven Green

phone: 1-212-713-8302

web address: [www.collegeboard.org](http://www.collegeboard.org)

### CREATIVE PUBLICATIONS

#### **MATHLAND** *(Elementary Mathematics)*

#### **MATHSCAPE: SEEING AND THINKING**

#### **MATHEMATICALLY** *(Middle School Mathematics)*

developer's web address:

[www.edc.org/mathscape](http://www.edc.org/mathscape)

contact: Bill Hartney

phone: 1-781 826-5392 or

1-800-537-4740 ext 4913

web address:

[www.creativepublications.com/mathScape/mathscape\\_frameSet.html](http://www.creativepublications.com/mathScape/mathscape_frameSet.html)

### DECISION DEVELOPMENT CORPORATION

#### **SCIENCE 2000** *(Middle School Science)*

contact: Jeff Carter

address: 2303 Camino Ramon, Suite 220

San Ramon, CA 94583

phone: 1-925 830-8896

fax: 1-925 830-0830

e-mail: [info@ddc2000.com](mailto:info@ddc2000.com)

web address: [www.ddc2000.com](http://www.ddc2000.com)

### DELTA EDUCATION

#### **FULL OPTION SCIENCE SYSTEM (FOSS)**

*(Elementary Science)*

contact: Lisa Wood

phone: 1-978-433-9781

fax: 1-978 433-6790

web address: [www.delta-ed.com](http://www.delta-ed.com)

### ENCYCLOPEDIA BRITANNICA

#### **MATHEMATICS IN CONTEXT**

*(Middle School Mathematics)*

contact: Jim Burnette

phone: 1-800-554-9862, ext. 7010

web address: [www.eb.com](http://www.eb.com)



EVERYDAY LEARNING CORPORATION

**EVERYDAY MATHEMATICS**

*(Elementary Mathematics)*

contact: Rosanne O'Donnell

address: 211 Pleasant Street

Norwell, MA 02061

phone: 1-781 659-7639

**CONTEMPORARY MATHEMATICS IN CONTEXT**

*(High School Math)*

developer's web address:

[www.wmich.edu/math-stat/cpmp](http://www.wmich.edu/math-stat/cpmp)

contact: Tom Benz

phone: 1-603-595-2861

web address: [www.everydaylearning.com](http://www.everydaylearning.com)

GLENCOE/MCGRAW-HILL

**INTERACTIVE MATHEMATICS**

*(Middle School Mathematics)*

**INTEGRATED MATH, SCIENCE, AND TECHNOLOGY (IMaST)**

*(Middle School Math)*

**SCIENCE INTERACTIONS**

*(Middle School Science)*

**TECHNOLOGY (Thode)**

*(Middle and High School Technology)*

contact: Richard Seefeldt

phone: 1-800 297-4638 (access code: 17)

e-mail: [RSGlencoe@Berk.com](mailto:RSGlencoe@Berk.com)

web address: [www.glencoe.com](http://www.glencoe.com)

HOUGHTON MIFFLIN COMPANY

(School Division: McDougal Littell)

**MATHTHEMATICS (STEM)**

*(Middle School Mathematics)*

*As of 8/24/98 there is no assigned representative.*

*For assistance, contact the publisher at:*

phone: 1-800 323-5435 or:

1-800 733-2828

web addresses: [www.mcdougallittell.com](http://www.mcdougallittell.com)

or: [www.hmco.com](http://www.hmco.com)

developer's web address:

[www.mlmath.com](http://www.mlmath.com)

IT'S ABOUT TIME

**ACTIVE PHYSICS** *(High School Science)*

web address: [www.activephysics.com](http://www.activephysics.com)

**MATH CONNECTIONS**

*(High School Math)*

developer's web address:

[www.mathconnections.com](http://www.mathconnections.com)

web address: [www.mathconnections.com](http://www.mathconnections.com)

contact: Chris Fikis

phone: 1-888-698-8463 ext 531

web address: [www.itsabouttime.com](http://www.itsabouttime.com)





KENDALL HUNT PUBLISHING COMPANY

**INSIGHTS** (*Elementary Science*)

**SCIENCE FOR LIFE AND LIVING**

(*Elementary Science*)

**MATH TRAILBLAZERS**

(*Elementary Mathematics*)

Developer's Web Address:

[www.math.uic.edu/MSE](http://www.math.uic.edu/MSE)

**MIDDLE SCHOOL SCIENCE & TECHNOLOGY**

(*Middle School Science*)

**FOUNDATIONS AND CHALLENGES TO**

**ENCOURAGE TECHNOLOGY-BASED**

**SCIENCE (FACETS)**

(*Middle School Science*)

**PRIME SCIENCE (Grades 6-10)**

(*High School Science*)

**BSCS BIOLOGY: A HUMAN APPROACH**

(*High School Science*)

**CHEMCOM: CHEMISTRY IN THE COMMUNITY**

(*High School Science*)

**INSIGHTS IN BIOLOGY**

(*High School Science*)

contact (Elem. and Middle Schools): Dan Dimitrofs

phone: 1-800-542-6657 ext 1125

contact (High School): Joe Haverland

phone: 1-800 542-6657 ext 1120

web address: [www.kendallhunt.com](http://www.kendallhunt.com)

KEY CURRICULUM PRESS

**INTERACTIVE MATHEMATICS PROGRAM (IMP)**

(*High School Mathematics*)

developer's web address:

[www.mathimp.org](http://www.mathimp.org)

**CALCULUS: CONCEPTS AND APPLICATIONS**

(*High School Mathematics*)

**DISCOVERING GEOMETRY**

(*High School Mathematics*)

contact: Path DiPietropolo

phone: 1-800-338-7638 ext 213, or

1-508-634-3872

web address: [www.keypress.com](http://www.keypress.com)

MATH LEARNING CENTER (MLC)

**VISUAL MATH**

(*Middle School Mathematics*)

**BOX IT OR BAG IT MATHEMATICS**

(*Elementary Mathematics*)

**OPENING EYES TO MATHEMATICS**

(*Elementary Mathematics*)

contact: Ardys Miller

phone: 1-800 575-8130

web address: [www.mlc.pdx.edu](http://www.mlc.pdx.edu)

*This information was updated on September 24, 1999.*



SCOTT FORESMAN/ADDISON WESLEY  
PUBLISHING COMPANY

**INVESTIGATIONS IN NUMBER, DATA, & SPACE**

*(Elementary Math)*

web address:

[www.awl.com/dsp/MainPages/Invest.html](http://www.awl.com/dsp/MainPages/Invest.html)

developer's web address:

[www.terc.edu/investigations/index.html](http://www.terc.edu/investigations/index.html)

**CONNECTED MATHEMATICS**

*(Middle School Mathematics)*

developer's web address: [www.msu.edu/cmp](http://www.msu.edu/cmp)

contact: Ed Misch

address: P.O. Box 138, Marshfield, MA 02050

phone: 1-315-475-9641

web address: [www.sf.aw.com](http://www.sf.aw.com)

PEARSON CUSTOM PUBLISHING (*formerly Simon & Schuster*)

**INTEGRATED MATHEMATICS (SIMMS):  
A MODELING APPROACH USING TECHNOLOGY**

*(High School Mathematics)*

developer's web address:

[www.montana.edu/~wwwsimms](http://www.montana.edu/~wwwsimms)

contact: Lynette Felix

phone: 1-800-693-4060

web address: [www.simmsnet.com](http://www.simmsnet.com)

SOUTH-WESTERN PUBLICATIONS:  
(THOMPSON LEARNING - DISTRIBUTOR)

**SCIENCE LINKS** *(High School Science)*

**MATHEMATICS: MODELING OUR WORLD**

*(High School Mathematics)*

**BIOLOGY: A COMMUNITY CONTEXT**

*(High School Science)*

**APPLICATIONS IN BIOLOGY/CHEMISTRY**

*(High School Science)*

contact: Steve Foley

phone: 1-877-430-0483 ext 8045

web address: [www.swep.com](http://www.swep.com)

UNIVERSITY OF ALABAMA

**INTEGRATED SCIENCE**

*(Middle School Science)*

contact: Chris Theriot

address: University of Alabama/CCET,  
Box 870167, Tuscaloosa, AL 35487-0167

phone: 1-800 477-8151

web address: [www.ccet.ua.edu](http://www.ccet.ua.edu)

UNIVERSITY OF HAWAII

**DEVELOPMENTAL APPROACHES IN SCIENCE,  
HEALTH, AND TECHNOLOGY (DASH)**

*(Elementary Science)*

web address: [www2.hawaii.edu/crdg/](http://www2.hawaii.edu/crdg/science/dash/dash.html)

[science/dash/dash.html](http://www2.hawaii.edu/crdg/science/dash/dash.html)

**FOUNDATIONAL APPROACHES IN SCIENCE**

**TEACHING (FAST)**

*(Middle School Science)*

web address: [www2.hawaii.edu/crdg/](http://www2.hawaii.edu/crdg/science/fast.FAST.html)

[science/fast.FAST.html](http://www2.hawaii.edu/crdg/science/fast.FAST.html)

phone: 1-800 799-8111

web address:

[www2.hawaii.edu/crdg/](http://www2.hawaii.edu/crdg/)