

Science – Making the Connection!

In the 21st century, science education is on the move to succeed as we focus on bringing reform to the classrooms. We must be systemic in our actions and consider the complete system and not isolated components. Recognizing the importance of staff development, we provide this support for classroom teachers and everyone who affects student learning. As we reexamine and stretch our current skills and knowledge to develop new strategies for working with students and colleagues, we move toward a more effective science education program.

Science Education Initiatives:

- * Curriculum Materials
- * Writing In Science
- * Partnership with Stake Holders
- * Safety in the Science Classroom
- * Science Fairs and Research Projects
- * Science Resource Center
- * Science Careers
- * Health Science
- * Diversity and Connecting With the Learner
- * Classroom Management and Group Process Skills

Curriculum Instructional Sequence and Pacing Guides

- Articulate curriculum, instruction and assessment
- Align district, state and national standards
- Outline the rigor for what students should know and be able to do
- Provide outcomes for pre and post assessments
- Align textbooks as a support to content
- Promote Inquiry-Based Learning

MEAP University Model Lesson Strategies and Assessments for Teachers and Students

- Elementary and Middle school curriculum, aligned lessons and items
- Multiple choice, constructed response, performance, extended response, data analysis, charts and graphs items
- Support hands-on, materials to enhance the teaching and learning process

Writing in Science Strategies – The Ultimate Guide

1. Learning log
2. Using charts, graphs, tables and diagrams
3. Cubing
4. R.A.F.T.
5. Summary writing
6. Double entry journal
7. Supporting a point of view
8. Biopoems

Connecting With the Learner Resources (CWL)

- Examining Beliefs and Defining Equity
- Designing Equitable Curriculum
- Linking Teaching With Learning
- Exploring Instructional Strategies
- Building Upon Successful Model Programs
- Partnership with Families and the Community
- Appendix A: Exemplary Programs
- Appendix B: Organizations and Resources

Safety Policies and Procedures

Science Classrooms must be evaluated to ensure that all safety procedures are followed in regards to:

- Animals
- Activities
- Equipment
- Chemicals

Sample Safety Equipment Guidelines

- Keep appropriate safety equipment on hand, including an emergency shower, eye-wash station, fume hood, fire blankets, and fire extinguisher. **All students and teacher(s) should have and wear safety goggles and protective aprons when working in the lab.**
- Ensure proper eye protection devices are worn by everyone engaged in supervising, observing, or conducting science activities involving potential hazards to the eye.
- Provide protective rubber or latex gloves for students then they dissect laboratory specimens.
- Use heat-safety items such as safety tongs, mittens, and aprons when handling either cold or hot materials.
- Use safety shields or screens whenever there is potential danger that an explosion or implosion might occur.

- Keep a bucket of 90 percent sand and 10 percent vermiculite or kitty litter (dried bentonite particles) in all rooms in which chemicals are handled or stored. The bucket must be properly labeled and have a lid that prevents other debris from contaminating the contents.

Safety Resources

For full text of the American Chemical Society's 32-page safety guide, visit:

http://membership.acs.org/c/ccs/pubs/chemical_safety_manual.pdg

Google Search: science classroom safety

Science Programs

K-12 Mathematics and Science Resource Center

The Center will serve staff at its new location at the International School for Girls. The Center provides support in the form of consultants, resources for research, and teachers and supervisors in mathematics and science education. The staff provides support, technical assistance and access to the latest developments in mathematics and science education. Provisions are made for loan of kits, equipment, supplies and materials. Teachers can visit the on-line catalog for the Center at www.detroitk12.mi.us.

Family Math and Science Night

Regular Family Math and Science nights are held at elementary and middle schools. At these events, teachers provide activities that can be conducted with household items so that they can be reconstructed at home with little or no additional expense. The activities demonstrate relevant science and math concepts are aligned with state benchmarks. Family math and science nights and science fairs encourage parents to participate in their children's education and nourish their children's interest in math, science and technology.

- Science and Engineering Fair of Metropolitan Detroit, March
- First Robotics Competition
- SAE A World In Motion Program
- STARS – (The Science Training Apprenticeship Research Students)
- DAPCEP (Detroit Area Pre-College Engineering Program)
- Summer Research Apprentice Program (Wayne State University)
- Advanced Placement Courses
- KARMANOS – Oncology Nurse Mentorship Program
- Biomedical Symposium for Junior and Senior Students
- Center for Learning Technologies In Urban Schools (Letus, University of Michigan)
- TRAC Careers

Professional Development

- NSTA Regional – Cobo Arena, Detroit, October 18-21, 2007
- MSTA Lansing, March 6-8, 2008
- NSTA – Boston, March 27-30, 2008

High School Science Professional Development

- Citywide Curriculum Leaders
- Integrated Natural Science
- Biology
- Chemistry
- Earth Science
- Science Fair
- New Teachers

Science Education Textbooks – 2007-2008 Academic Year

Elementary Science Textbooks

Kindergarten

Harcourt, Science, K

Grade 1

Harcourt, Science, Units A-B

FOSS, Air and Weather Kit. Solids and Liquids

Grade 2

Harcourt, Science, Grade 2

FOSS, Insects Kit

Grade 3

Harcourt, Science, Grade 3

FOSS, Measurement Kit.

Magnetism and Electricity Kit.

Structures of Life Kit

Laser Discs,

Videodiscovery, Science Sleuth's

The Pet Store Predicament, Disc 1

The Case of the Sore Team. Disc 1

The Vacation to Planet X, Disc 2

The Vanishing Swimming Hole, Disc 2

Grade 4

Harcourt, Science, Grade 4

FOSS, Magnetism and Electricity Kit,
Landforms Kit.

Structures of Life Kit

Laser Discs

Videodiscovery, Science Sleuth's, Grade 3

The Plant that Wouldn't Grow, Disc 1

The Out of Control Cafe, Disc 1

The Wreck of the Fortuna Dourada. Disc 2

The Frog File, Disc 2

The Challenge of the Bogus Brakes, DISC 3

The Alarming Episode, Disc 3

Grade 5

Harcourt, Science, Grade 5

FOSS, Measurement Kit.

Laser Discs,

Videodiscovery. Science Sleuths, Grade 3, Grade 5

The Fast Fish Frenzy, Disc 1

The Dubious Donor, Disc 1

The Riddle of the Rhino Cast, Disc 2

The Sap Situation, Disc 2

The Puzzling Picture, Disc 3

The Little Blimp that Couldn't, Disc 3

New Science Resources K-8

Kindergarten

FOSS Program: Animals Two By Two

Delta Science Modules: Properties

Grade 2

Delta Science Modules: Sound, States of Matter

Grade 5

Delta Science Modules: Force and Motion,

Rocks and Minerals

Science Court Software: Seasons, Inertia

Grade 6

Delta Science Modules: Lenses and Mirrors
Module

Michigan Environmental Educational

Curriculum Support (MEECS) Units-

Biodiversity and Ecosystems, Water Quality ,

Energy Resources Unit

Grade 7

Delta Science Modules: Matter and Change
Module

FOSS Landforms Program

Grade 8

Delta Science Modules: Newton's Toy Box

Middle School Prentice Hall Science Text Books

Prentice Hall Middle School Science Text Books

- From Bacteria to Plants Gr. 8
- Chemical Interactions Gr. 8
- Inside Earth Gr. 8
- Astronomy Gr. 8
- Human Biology And Health Gr. 8
- Earth Waters Gr. 7
- Cells and Heredity Gr. 7
- Chemical Building Blocks Gr. 7
- Motion, Forces, and Energy Gr. 7
- Earth's Changing Surface Gr. 7
- Environmental Science Gr. 6
- The Nature of Science and Technology Gr. 6
- Electricity and Magnetism Gr. 6
- Weather and Climate Gr. 6
- Sound and Light Gr. 6

Resources with Each Book

- Spanish Teaching Guide With Test
- Spanish Guided Reading and Study
- Teaching Resources
- Student Copies
- Teachers Edition
- Spanish Student Copies
- Guided Reading and Study Workbook
- Adapted Test
- Adapted Reading and Study Workbook
- All- in- One Teaching Resources

High School Science Textbooks

Course	Title	Authors	ISBN	Copyright	Cost	Publisher
INS Grade 9	Integrated Science: An Investigated Approach Tch. Edition	Hsu	1-58892-148-4	2006 <i>Adopted 2006</i>	77.95	Delta Educationa LLC dba CPO Science
INS Grade 9	Integrated Science: An Investigated Approach Std.. Edition	Hsu	1-58892-182-4	2006 <i>Adopted 2006</i>	58.7	Delta Educationa LLC dba CPO Science
INS Grade 9	Integrated Science: An Investigated Approach Teacher's Tool Kit	Hsu	Product Number 925- 492-5910	2006 <i>Adopted 2006</i>	399.95	Delta Educationa LLC dba CPO Science
INS Grade 9	Items included in Teacher's Tool Kit	Teacher's Guide, Test Bank (CD ROM and guide book),	Color Teaching Tools (CD ROM & index booklet	Electronic Book (CD ROM)	Blackline Masters, Student Skills Sheets	3 NEO/Sci CD ROMs (Biosphere, Mitosis and Meiosis, Genetics and Heredity)
INS Grade 9	Integrated Science: An Investigated Approach Equipment Kit	Hsu	Product Number 925- 792-5590	2006 <i>Adopted 2006</i>	2,045.00	Delta Educationa LLC dba CPO Science
INS Grade 9	Items included in Equipment Kit:	Timer Iie & Photogates, Car & Ramp, Rollercoast er, 1 Physics Stand, Ropes & Pulleys	Lever, Electric Circuits, Pendulum, Sound & Waves, Llight & Optics, Spectromenter	Atom Building Game, SE, Periodic Tabke Tiles, Bathymetric Maps, 75 piece Rock Kit	Electroma gnet Pack, Displacem ent Tank, Weight Set, Spring Scale.,	Telescope Kit, Solar Cell w/Solar Electric Motor, Aneroid Barometer, Globem Sling Psychrometer,Ear th and Space Science Color Plates Set,
INS Grade 9	Integrated Science: An Investigated Approach E Book	Hsu	Product Number 592- 2922-MIB	2006 <i>Adopted 2006</i>	1/textbook	Delta Educationa LLC dba CPO Science
INS Grade 9	Integrated Science: An Investigated Approach ProPlanner DC ROM	Hsu		2006 <i>Adopted 2006</i>		Delta Educationa LLC dba CPO Science
Biology Grade 10	Biology - The Dynamics of Life CBL Lab Manual for Biology	Biggs	0-07-860228-9	2004 <i>Adopted 2004</i>	12.99 Std/ 25.98	Glencoe- McGraw-Hill

Course	Title	Authors	ISBN	Copyright	Cost	Publisher
Biology Grade 10	Biology - The Dynamics of Life Examview Pro Test Bank	Biggs	0-07-860348	2004 <i>Adopted 2004</i>	169.98	Glencoe- McGraw-Hill
Biology Grade 10	Biology - The Dynamics of Life Interactive Chalkboard CD- ROM	Biggs	0-07-860347-1	2004 <i>Adopted 2004</i>	189.99	Glencoe- McGraw-Hill
Biology Grade 10	Biology - The Dynamics of Life Lab Manual for Bio	Biggs	0-07-860228-9	2004 <i>Adopted 2004</i>	13.50 Std/ 25.98	Glencoe- McGraw-Hill
Biology Grade 10	Biology - The Dynamics of Life Science Inquiry Lab Man	Biggs	0-07-860226-2	2004 <i>Adopted 2004</i>	12.99 Std/ 24048	Glencoe- McGraw-Hill
Biology Grade 10	Biology - The Dynamics of Life Section Focus Transparency	Biggs	0-07-860236- X	2004 <i>Adopted 2004</i>	103.98	Glencoe- McGraw-Hill
Biology Grade10	Biology - The Dynamics of Life Std. Ed.	Biggs	0-07-829900-4	2004 <i>Adopted 2004</i>	63.48	Glencoe- McGraw-Hill
Biology Grade 10	Biology - The Dynamics of Life Tch Classroom Resources	Biggs	0-07-829901-2	2004 <i>Adopted 2004</i>	299.97	Glencoe- McGraw-Hill
Biology Grade 10	Biology - The Dynamics of Life Video Lab Pkg.	Biggs	0-07-860452-4	2004 <i>Adopted 2004</i>	49.98	Glencoe- McGraw-Hill
Biology Grade 10	Biology - The Dynamics of Life Virtual Lab CD- ROM	Biggs	0-07-860452-4	2004 <i>Adopted 2004</i>	49.98	Glencoe- McGraw-Hill
Biology Grade 10	Biology- The Dynamics of Life Basic Concepts Transparency	Biggs	0-07-860235-1	2004 <i>Adopted 2004</i>	96.48	Glencoe- McGraw-Hill
Biology Grade 10	Biology-The Dynamics of Life Tch Wraparound	Biggs	0-07-829899-7	2004 <i>Adopted 2004</i>	81.99	Glencoe- McGraw-Hill
Biology Grade 10	Biology: A Community Context, Teacher's Guide	Leonard & Penick	0-538-65209-8	1998 <i>Adopted 1999</i>		South-Western Educational Publishing

Course	Title	Authors	ISBN	Copyright	Cost	Publisher
Biology Grade 10	Biology: A Community Context, Student's Ed.	Leonard & Penick	0-538-658208-x	1998 <i>Adopted 1999</i>		South-Western Educational Publishing
Biology Grade 10	Biology: A Community Context, Videocassette	Leonard & Penick	0-538-66756-7	1998 <i>Adopted 1999</i>		South-Western Educational Publishing
Biology Grade 10	Biology: A Community Context, Instructional Resources	Leonard & Penick	0-538-68255-8	1998 <i>Adopted 1999</i>		South-Western Educational Publishing
Biology Grade 10	Biology: A Community Context, Student Resources	Leonard & Penick	0-538-68573-5	1998 <i>Adopted 1999</i>		South-Western Educational Publishing
Biology Grade 10	Biology: A Community Context, Student Resources Tch Pkg.	Leonard & Penick	0-538-68956-0	1998 <i>Adopted 1999</i>		South-Western Educational Publishing
Biology Grade 10	Biology: A Community Context, CNN Video Update Series (Part1)	Leonard & Penick	0-538-68469-0	1998 <i>Adopted 1999</i>		South-Western Educational Publishing
Anatomy & Physiology Grade 11-Jan	Hole's Human Anatomy and Physiology Student Edition c1999, 8th Ed. c2004, 10th Ed.	Butler, Lewis & Shier	0-697-34193-3	2004 <i>Adopted 1999</i>		McGraw-Hill (Higher Education)
Anatomy & Physiology Grade 11-Jan	Hole's Human Anatomy and Physiology, Instructor's Manual c1999, 8th Ed. c2004, 10th Ed.	Butler, Lewis & Shier	0-69734210-7	1999 & 2004 <i>Adopted 1999</i>		McGraw-Hill (Higher Education)
Anatomy & Physiology Grade 11-Jan	Hole's Human Anatomy and Physiology, Study Guide, c1999, 8th Ed. c2004, 10th Ed.	Butler, Lewis & Shier	0-697-34217-4	1999 & 2004 <i>Adopted 1999</i>		McGraw-Hill (Higher Education)
Anatomy & Physiology Grade 11-Jan	Hole's Human Anatomy and Physiology, Laboratory Manual, Fundamentals of Anatomy & Physiology, c1997, 4th Ed.	Martini, Meehan, Roberta M.		1999 & 2004 <i>Adopted 1998</i>		Prentice Hall

Course	Title	Authors	ISBN	Copyright	Cost	Publisher
Anatomy & Physiology Grade 11-Jan	Hole's Human Anatomy and Physiology, Study Guide, c1999, 8th Ed. c2004, 10th Ed.	Sickles, Corbett, Nancy A..		1999 & 2004 <i>Adopted 1999</i>		McGraw-Hill (Higher Education)
Anatomy & Physiology Grade 11-Jan	Hole's Human Anatomy and Physiology, Transparencies, c1999, 8th Ed. c2004, 10th Ed.	Sickles, Corbett, Nancy A..		1999 & 2004 <i>Adopted 1999</i>		McGraw-Hill (Higher Education)
Anatomy & Physiology Grade 11-Jan	Hole's Human Anatomy and Physiology, Test Bank, DC-ROM	Sickles, Corbett, Nancy A..	WIN/MAC	1999 & 2004 <i>Adopted 1999</i>		McGraw-Hill (Higher Education)
Anatomy & Physiology Grade 11-Jan	Dynamic Human, Version 2.0 CD-ROM			1999 & 2004 <i>Adopted 1999</i>		McGraw-Hill (Higher Education)
Anatomy & Physiology Grade 11-Jan	Essential Study Partners CD-ROM			1999 & 2004 <i>Adopted 1999</i>		McGraw-Hill (Higher Education)
Anatomy & Physiology Grade 11-Jan	Zoologik System Kinesthetic Mannequins, Anatomy in Clay	Zoologik System	5/building	1999 & 2004 <i>Adopted 1999</i>		Zoologik System
Anatomy & Physiology Grade 11-Jan	Myologik Atlas of Human Musculature in Clay	Zahourek, Jon		1996		
Anatomy & Physiology Grade 11-Jan	Photo Atlas for Anatomy and Physiology	Morton, D., Perry, J. W.,		1998 <i>Adopted 1998</i>		Wadsworth Publishing
Chemistry Grade 11	Holt Chem Audio CD Summaries	Myers, Oldham & Tocci	0-03-068528-8	2004 <i>Adopted 2004</i>	85.00	Holt, Rinehart & Winston
Chemistry Grade 11	Holt Chem Chapter Resources	Myers, Oldham & Tocci	0-03-066464-0	2004 <i>Adopted 2004</i>	160.10	Holt, Rinehart & Winston

Course	Title	Authors	ISBN	Copyright	Cost	Publisher
Chemistry Grade 11	Holt Chem Enhanced Online Edition w/Stnt Ed. CD-ROM	Myers, Oldham & Tocci	0-03-037033-7	2004 <i>Adopted 2004</i>		Holt, Rinehart & Winston
Chemistry Grade 11	Holt Chem Lab Manager's Professional Reference	Myers, Oldham & Tocci	0-03-064921-8	2004 <i>Adopted 2004</i>	16.85	Holt, Rinehart & Winston
Chemistry Grade 11	Holt Chem One- Stop Planner CD- ROM	Myers, Oldham & Tocci	0-0-03- 066747-X	2004 <i>Adopted 2004</i>	77.25	Holt, Rinehart & Winston
Chemistry Grade 11	Holt Chem Problem Solving	Myers, Oldham & Tocci	0-03-068269- X	2004 <i>Adopted 2004</i>	10.95	Holt, Rinehart & Winston
Chemistry Grade 11	Holt Chem Science Skills Workshop	Myers, Oldham & Tocci	0-03-064423-2	2004 <i>Adopted 2004</i>	31.45	Holt, Rinehart & Winston
Chemistry Grade 11	Holt Chem Study Guide	Myers, Oldham & Tocci	0-03-068269- X	2004 <i>Adopted 2004</i>	9.00	Holt, Rinehart & Winston
Chemistry Grade 11	Holt Chem Teaching Transparencies	Myers, Oldham & Tocci	0-03-067449-2	2004 <i>Adopted 2004</i>	181.65	Holt, Rinehart & Winston
Chemistry Grade 11	Holt Chem Visual Concepts in Chemistry	Myers, Oldham & Tocci	0-03-074272-2	2004 <i>Adopted 2004</i>	40.20	Holt, Rinehart & Winston
Chemistry Grade 11	Holt Chem. CNN presents Science in News	Myers, Oldham & Tocci	0-03-055328-8	2004 <i>Adopted 2004</i>	53.80	Holt, Rinehart & Winston
Chemistry Grade 11	Holt Chemistry Stud. Ed.	Myers, Oldham & Tocci	0-03-066462-4	2004 <i>Adopted 2004</i>	59.85	Holt, Rinehart & Winston
Chemistry Grade 11	Holt Chemistry Tch. Ed.	Myers, Oldham & Tocci	0-03-066463-2	2004 <i>Adopted 2004</i>	77.90	Holt, Rinehart & Winston
Conceptual Chemistry Grade 11	Chemcom, Chemistry in the Community 1998, Teacher's Edition, 3rd Ed.	American Chemical Society	0-7872-0560-5	1998 <i>Adopted 1990</i>		Kendall/Hunt
Conceptual Chemistry Grade 11	Chemcom, Chemistry in the Community 1998, Student's Edition, 3rd Ed.	American Chemical Society	0-7872-0561-3	1998 <i>Adopted 1990</i>		Kendall/Hunt

Course	Title	Authors	ISBN	Copyright	Cost	Publisher
Earth Science Grade 11	Earth Science Stud. Ed.	Spaulding- Namowitz	0-618-11550-1	2003 <i>Adopted 1998</i>		McDougal-Littell
Earth Science Grade 11	Earth Science Tch. Ed.	Spaulding- Namowitz	0-618-18739-1	2003 <i>Adopted 1998</i>		McDougal-Littell
Physics In Context Grade 12	Active Physics: Medicine	Eisenkraft	1-891629-02-6	1999 <i>Adopted 1998</i>		It's About Time
Physics In Context Grade 12	Active Physics: Sports	Eisenkraft	1-891629-04-2	1999 <i>Adopted 1998</i>		It's About Time
Physics In Context Grade 12	Active Physics: Transportation	Eisenkraft	1-891629-05-0	1999 <i>Adopted 1998</i>		It's About Time
Physics In Context Grade 12	Active Physics: Resource packs	Eisenkraft	1-891629-45-x	1999 <i>Adopted 1998</i>		It's About Time
Physics In Context Grade 12	Items included in the Resource packs are the following DC ROMs:	Physic Info Mall, The Sun's Joules. Green Home, Ap Spreadsheet Software	1-891629-45-x	1999 <i>Adopted 1998</i>		It's About Time
Microbiology Grade 12	Microbiology, A Human Perspective, Instructor's Manual / Text items File, 2nd and 4th Ed	Nester	0-07-228765-9	1998 & 2004 <i>Adopted 1999 2nd Ed</i>		McGraw-Hill (Higher Education)
Microbiology Grade 12	Microbiology, Student Edition, 2nd and 4th Ed	Nester	0-07-236040-2	1998 & 2004 <i>Adopted 1999 2nd Ed</i>		McGraw-Hill (Higher Education)
Microbiology Grade 12	Microbiology, A Human Perspective, Student Study Guide, 2nd and 4th Ed	Nester	0-697-28606-1	1998 & 2004 <i>Adopted 1999 2nd Ed</i>		McGraw-Hill (Higher Education)
Microbiology Grade 12	Microbiology, A Human Perspective, Overhea d Transparencie s, 2nd and 4th Ed	Nester	0-697-28607-x	1998 & 2004 <i>Adopted 1999 2nd Ed</i>		McGraw-Hill (Higher Education)
Microbiology Grade 12	Microbiology, A Human Perspective, Study Cards, 2nd and 4th Ed	Nester	0-697-10979-8	1998 & 2004 <i>Adopted 1999 2nd Ed</i>		McGraw-Hill (Higher Education)

Course	Title	Authors	ISBN	Copyright	Cost	Publisher
Microbiology Grade 12	Microbiology, A Human Perspective, Slides, 2nd and 4th Ed	Nester	0-697-28606-1	1998 & 2004 <i>Adopted 1999</i> <i>2nd Ed</i>		McGraw-Hill (Higher Education)
Microbiology Grade 12	Microbiology, A Human Perspective, Test Bank-Microtest , 2nd and 4th Ed	Nester	WIN: 0-697-288767-5 MAC: 0-07-228766-7	1998 & 2004 <i>Adopted 1999</i> <i>2nd Ed</i>		McGraw-Hill (Higher Education)
Microbiology Grade 12	Microbiology, Microbes in Motion DCROM, 2nd and 4th Ed	Nester	0-697-37905-1	1998 & 2004 <i>Adopted 1999</i> <i>2nd Ed</i>		McGraw-Hill (Higher Education)
Microbiology Grade 12	Unseen Life on Earth: An Introduction to Microbiology	Annenberg/CPB Project			1set of 12/building	
Physics Grade 12	Glencoe Physics: Principles and Problems, Teacher's Ed.	Zitewitz		1999 <i>Adopted 1998</i>		Glencoe-McGraw-Hill
Physics Grade 12	Glencoe Physics: Principles and Problems, Student's Ed.	Zitewitz		1999 <i>Adopted 1998</i>		Glencoe-McGraw-Hill
Physics Grade 12	Glencoe Physics: Principles and Problems, Resource.	Zitewitz		1999 <i>Adopted 1998</i>		Glencoe-McGraw-Hill
Each School Science Dept	TI-83 Plus Silver Edition		10-17 each building	<i>Adopted 2002</i>		Accutrac, Inc. DBA Western
Each School Science Dept	TI-CBL2 Calculator		10-17 each building	<i>Adopted 2002</i>		D & H Distributing

High School: Introducing the Michigan Merit Exam (MME)

- www.michigan.gov/mme
- www.michigan.gov/highschool
- www.michigan.gov/science
- www.michigan.gov/mme

For ACT specific questions

- mi.mme@act.org

2007– 2008 K-12 Science Professional Development

<u>2007</u>	
October 18	Science Research Clubs / Programs for Students
November 15	Technology in the Science Classroom
December 21	Group Processes for Learning
<u>2008</u>	
January 17	Safety in the Science Classroom
February 21	Learning Through Diversity – (CWL) Connecting with the Learner @ Charles Wright African American Museum
March 20	The Science of Health
April 17	Insights into Brain Learning
May 15	Science Awards Program

All science educators are encouraged to attend.

* Most of the sessions will be held on the 3rd Thursday of each month, at the **Harris Bldg. 3700 Pulford, (313) 866-3770** near *Gratiot and Mack* from 4-7:00 p.m.

For more information, call the Office of Science Education at (313) 873-1485.

Detroit Public Schools

Proposed Workshops and Dates for Elementary Science - 2007-2008

Location: Harris Building, 3700 Pulford, Detroit, MI, (313) 866-3770

September	Dates	Time
Key Teachers Meeting	September 11	4:30-7:30 pm
New Teachers (Elementary / Middle)	September 18	4-7 pm
Science Connection Expo - (Elementary / Middle/ High Schools)	September 25	4-6 pm
October		
Grade 5 Curriculum Workshop	October 9	4:30-6:30 pm
Elementary Science Teachers Meeting	October 16, 23	4:30-7:30 pm
November		
Elementary Science Fair Workshop	November 8	4:30-6:30 pm
Family Math and Science	November 10	8:30 – 11:30 am
Key Science Teachers Meeting	November 13	4:30-7:30 pm
A World in Motion Principals Breakfast	November 15	7:30-9:00 am
December		
Science FOSS/Delta Kit Workshop	December 8	8:30 a.m. – 3:30 pm
January		
New Teachers	January 15	4-7 pm
Key Teachers Meeting	January 22	4:30-7:30 pm
A World in Motion 4 th Grade	January 29	4:30-6:30 pm
A World in Motion 5 th Grade	January 31	4:30-6:30 pm
February		
Family Math and Science	February 9	8:30 am -3:30 pm
March		
Key Teachers	March 11	4:30-7:30 pm
April		
Elementary Science Teachers Meeting	April 8, 10	4:30-7:30 pm
Family Math and Science	April 17	8:30 am -3:30 pm
Family Math and Science	April 19	8:30 am -3:30 pm
May		
Key Teachers Meeting	May 6	4:30-7:30 pm
New Teachers (Elementary and Middle)	May 13	
Family Math and Science	May 17	8:30 am -3:30 pm

Proposed Workshops and Dates for Middle School Science - 2007-2008
Location: Harris Building, 3700 Pulford, Detroit, MI, (313) 866-3770

September	Dates	Time
Curriculum Leaders Meeting	September 13	4--6pm
New Teachers (Elementary / Middle)	September 18	4-7 pm
Science Connection Expo - (Elementary / Middle/ High Schools)	September 25	4-6 pm
October		
All Teachers Meeting	October 4	4-7 pm
Curriculum Leaders Meeting	October 11	4-6 pm
Science Fair Workshop (Middle and High Schools)	October 9 or 23	4-7 pm
November		
Curriculum Leaders Meeting	November 8	4-6 pm
Global Warming Session	November 20	4-7 pm
December		
All Teachers	December 13	4-7 pm
January		
Curriculum Leaders Meeting	January 10	4-6 pm
New Teachers	January 15	4-7 pm
February		
All Teachers Meeting	February 7	4-7 pm
Curriculum Leaders Meeting	February 14	4-6 pm
March		
Curriculum Leaders Meeting	March 13	4-6 pm
April		
Curriculum Leaders Meeting	April 10	4-6 pm
All Teachers Meeting	April 24	4-6 pm
May		
Curriculum Leaders Meeting	May 8	4-6 pm
New Teachers (Elementary and Middle)	May 13	4-7 pm

**High School Science
2007-2008 Tentative Professional Development Calendar**

Citywide High School Science Curriculum Leaders

Monday(s)	Time	Place
September 10, 2007	4:45 – 7:45 pm	Mumford
October 8, 2007	4:45 – 7:45 pm	Mumford
November 5	4:45 – 7:45 pm	Mumford
December 3	4:45 – 7:45 pm	Mumford
January 14, 2008	4:45 – 7:45 pm	Mumford
February 4, 2008	4:45 – 7:45 pm	Mumford
March 3, 2008	4:45 – 7:45 pm	Mumford
April 7, 2008	4:45 – 7:45 pm	Mumford
May 5, 2008	4:45 – 7:45 pm	Mumford

Integrated Natural Science – Year Two Support

Saturday(s) – Date	Time	Place
September 29, 2007	8:00 a.m. – 2:00 p.m.	Cass Technical
October 13, 2007	8:00 a.m. – 2:00 p.m.	Cass Technical
<i>October 20, 2007</i>	<i>8:00 a.m. – 2:00 p.m.</i>	<i>NSTA Attendance</i>
December 15, 2007	8:00 a.m. – 2:00 p.m.	Cass Technical
January 12, 2008	8:00 a.m. – 2:00 p.m.	Cass Technical
January 26, 2008	8:00 a.m. – 2:00 p.m.	Cass Technical
March 8, 2008	8:00 a.m. – 2:00 p.m.	Cass Technical
March 15, 2008	8:00 a.m. – 2:00 p.m.	Cass Technical
May 10, 2008	8:00 a.m. – 2:00 p.m.	Cass Technical
May 17, 2008	8:00 a.m. – 2:00 p.m.	Cass Technical

New High School Science Probationary Teachers (4 years or less teaching experience)

Monday(s) – Date	Time	Place
October 1, 2007	4:45 – 7:45 pm	Northwestern
October 22, 2007	4:45 – 7:45 pm	Northwestern
November 12, 2007	4:45 – 7:45 pm	Northwestern
December 10, 2007	4:45 – 7:45 pm	Northwestern

High School Chemistry for All

Saturday(s) – Date	Time	Place
September 15, 2007	8:00 a.m. – 3:00 p.m.	Cass Technical
October 22, 2007	8:00 a.m. – 3:00 p.m.	Cass Technical
November 12, 2007	8:00 a.m. – 3:00 p.m.	Cass Technical
December 10, 2007	8:00 a.m. – 3:00 p.m.	Cass Technical

Science Fair

Tuesday – Date	Time	Place
October 9, 2007	4:00 – 7:00 p.m.	Harris Building

Partnerships

The Science Department works with several universities, corporate and organizational partners to enhance opportunities for staff and students. These partners include: Ford Motor Company, Center for Learning Technologies with the University of Michigan, Wayne State University, Barbara Ann Karmanos Cancer Institute, DAPCEP, Academic Games, The Greening of Detroit, River Rouge Education Project, Project SEED, Summer Research Apprenticeship Programs, Science and Engineering Fair of Metropolitan Detroit and First Robotics.

Other Partnership Programs

- Detroit Science Center
- Charles Wright Museum
- Children's Museum
- Cranbrook Science Museum
- Detroit Zoo/Visteon
- Lawrence Tech University

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