



CHEMISTRY GRADE 11 AND GRADE 12
LEARNING RESOURCES

A Reference for Selecting Learning
Resources (August 2007)

Manitoba Education, Citizenship and Youth Cataloguing in Publication Data

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 a reference for selecting learning resources.
 (August 2007)

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with copyright law. If cases are identified where this has not been done,
please notify Manitoba Education, Citizenship and Youth. Errors or omissions
will be corrected in a future edition.

Any websites referenced in this document are subject to change without
notice. Educators are advised to preview and evaluate websites and online
resources before recommending them for student use.

This resource is available on the Manitoba Education, Citizenship and Youth
website at <www.edu.gov.mb.ca/k12/learnres/bibliographies.html>.

A C K N O W L E D G E M E N T S

Manitoba Education, Citizenship and Youth acknowledges the individuals involved in the review and selection of learning resources to support provincial curriculum implementation. Appreciation is extended also to school divisions within Manitoba that supported teachers' participation in the review. Finally, publishers, producers, and distributors are thanked for their submission of learning resources for consideration.

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INTRODUCTION

Reference for Selecting Learning Resources

CHEMISTRY GRADE 11 AND GRADE 12 LEARNING RESOURCES is a reference tool provided by Manitoba Education, Citizenship and Youth to help educators select student and teacher learning resources to support the curriculum. Recommended learning resources may be purchased through the Manitoba Text Book Bureau (MTBB), and many of the titles may be borrowed from the Department's Instructional Resources Unit (Library).

The bibliography is arranged alphabetically by title, followed with indexes. The indexes may include audience, (for example, resource for teachers or resource for students), grade, distributor, category (for example, depth resource), and suggested use.

Learning Resources Reviews

Publishers submit resources for review in response to the Department's request for new learning resources to support provincial curricula. Teachers, nominated by superintendents of school divisions, are selected as teacher-evaluators. Using a collaborative review process, the teacher-evaluators examine the materials according to the resource-selection criteria to make recommendations regarding the suitability of the resources for Manitoba students and teachers.

Resource Selection Criteria

Learning resources are selected based on the basis of their fidelity with the rationale, philosophy, processes, and learning outcomes identified in each curriculum. Four evaluation criteria are used in selecting learning resources:

- **Curriculum Fit/Content/Philosophy:** Evaluators determine the suitability of each learning resource by considering the degree to which the content and processes of the resource align with the curriculum, thus providing support for curriculum implementation.
- **Instructional Design:** Evaluators determine the appropriateness of each learning resource in terms of instructional design, determining the degree to which the resource provides for multiple approaches to learning, has a wide range of use, is current, and reflects current pedagogical theory and practice.
- **Social Considerations:** Evaluators determine the appropriateness of each learning resource in terms of social concerns. They consider the degree to which the resource is free of bias and stereotyping. The resource is examined for Canadian content, the use of culturally diverse examples, and accurate portrayal of First Nations, Inuit, and Métis peoples. Cautionary notes are added to alert teachers to potentially sensitive curriculum-fit issues or potential community concerns related to the resource.

- **Technical Design:** Evaluators determine the appropriateness of each learning resource in terms of technical design, considering the degree to which the resource is visually appealing and has a logical and consistent form.

When selecting learning and teaching resources, teachers should consider how the resources meet the learning requirements of students, the perspectives of the student population, and local decisions related to the delivery of potentially sensitive content.

Terms and Definitions

The following terms and definitions are used to describe the learning resources:

- **Breadth:** identifies learning resources that address a wide range of student learning outcomes for a particular grade.
- **Depth:** identifies learning resources that provide effective learning experiences in greater detail for a narrower grouping of student learning outcomes.
- **Breadth and Depth:** identifies comprehensive learning resources that provide both breadth and depth dimensions for an extensive grouping of student learning outcomes.
- **Teacher Reference:** identifies resources that assist teachers in implementing the curriculum, including background information for teacher use; may identify teaching suggestions and learning activities.
- **Teacher Guide:** identifies a separate guide for teachers or a teacher's edition of a **Student Text**.

Purchase of Learning Resources

The learning resources described in the bibliography are available for purchase through the *Manitoba Text Book Bureau Catalogue of Learning Resources*. For information or assistance regarding the purchase of learning resources, contact:

The Manitoba Text Book Bureau (MTBB)

Box 910

Souris, MB R0K 2C0

Toll free: 866-771-6822 (Manitoba and Saskatchewan)

Telephone: 204-483-5040

Fax: 204-483-5041

Email: mtbb@gov.mb.ca

Online catalogue: <<http://www.mtbb.mb.ca>>

Loans and Bookings of Learning Resources

Most of the learning resources listed in the bibliography are available to Manitoba educators from the Instructional Resources Unit (IRU) Library, Manitoba Education, Citizenship and Youth.

CIRCULATION SERVICES – to register as a patron, renew resources and inquire about loans, contact:

Circulation Desk: Instructional Resources Unit
Manitoba Education, Citizenship and Youth
1181 Portage Avenue
Winnipeg MB R3G 0T3
Telephone: Winnipeg: 204-945-5371
Toll Free outside of Winnipeg – 800-282-8069 ext. 5371
Fax: 204-945-8756
Email: irucirc@gov.mb.ca

REFERENCE AND INFORMATION SERVICES – to request print materials, kits, audio CD's and sound cassettes, and to obtain information on resources, contact:

Reference Services: Instruction Resources Unit – Address Above
Telephone: Winnipeg: 204-945-7830
Toll Free: 800-282-8069 ext. 7830
Fax: 204-945-8756
Email: iruref@gov.mb.ca

MEDIA BOOKING SERVICES – to request VHS, DVDs and CD-ROMs, contact:

Media Booking: Instructional Resources Unit – Address Above
Telephone: Winnipeg: 204-945-7849
Toll Free outside Winnipeg – 800-592-7330
Fax: 204-945-8756
Email: irucirc@gov.mb.ca

FOR FURTHER INFORMATION ON THE IRU'S RESOURCES AND SERVICES:

Visit the online catalogue at: <http://libcat.merlin.mb.ca>
Visit the IRU web site at: <http://libinfo.merlin.mb.ca>



TITLES & DESCRIPTIONS

Glencoe Chemistry: Matter and Change

Publisher : McGraw-Hill Ryerson Limited

Subject/Grade

	K	1	2	3	4	5	6	7	8	9	10	11	12
Chemistry												✓	✓

Glencoe Chemistry: Matter and Change (Student Text)

Author(s): Dingrando, L., et al **Audience:** Student
Edition: **Category:**
Year: 2005 **Suggested Use(s):**
Pagination: 1008 p
ISBN: 0-07-866418-7
Format: Print

Publisher: McGraw-Hill Ryerson Limited **Date Recommended:** February 2006
Distributor: McGraw-Hill Ryerson Limited

Glencoe Chemistry: Matter and Change: ExamView Pro Testmaker CD-ROM

Author(s): **Audience:** Teacher
Edition: **Category:**
Year: 2005 **Suggested Use(s):**
Pagination: unp.
ISBN: 0-07-867738-6
Format: CD-ROM

Publisher: McGraw-Hill Ryerson Limited **Date Recommended:** February 2006
Distributor: McGraw-Hill Ryerson Limited

System Requirements:

Windows: Intel Pentium processor, Windows 98, Me, 2000, XP (or a more recent version), color monitor (VGA compatible), CD-ROM drive, hard drive with at least 10 MB space available, 16 MB available memory (32 MB memory recommended), an Internet connection to access the Internet test-hosting features

Macintosh: PowerPC processor, System 8.6, 9.2, or OS X (10.2 or higher), color monitor (VGA compatible), CD-ROM drive, hard drive with at least 20 MB space

available, 16 MB available memory (32 MB memory recommended), an Internet connection to access the Internet test-hosting features

Glencoe Chemistry: Matter and Change: Laboratory Manual: Student Edition

Author(s):		Audience:	Student
Edition:		Category:	
Year:	2005	Suggested Use(s):	
Pagination:	208 p		
ISBN:	0-07-824524-9		
Format:	Print		
Publisher:	McGraw-Hill Ryerson Limited	Date Recommended:	February 2006
Distributor:	McGraw-Hill Ryerson Limited		

Glencoe Chemistry: Matter and Change: Math Skills Transparency Package: Color Transparencies

Author(s):		Audience:	Teacher
Edition:		Category:	
Year:	2005	Suggested Use(s):	
Pagination:	unp.		
ISBN:	0-07-824541-9		
Format:	Transparencies		
Publisher:	McGraw-Hill Ryerson Limited	Date Recommended:	February 2006
Distributor:	McGraw-Hill Ryerson Limited		

Glencoe Chemistry: Matter and Change: Science Notebook

Author(s):	Fisher, D.	Audience:	Student
Edition:		Category:	
Year:	2005	Suggested Use(s):	
Pagination:	380 p		
ISBN:	0-07-868205-3		
Format:	Print		

Publisher: McGraw-Hill Ryerson Limited
Date Recommended: February 2006
Distributor: McGraw-Hill Ryerson Limited

Glencoe Chemistry: Matter and Change: Section Focus Transparency Package: Color Transparencies

Author(s): **Audience:** Teacher
Edition: **Category:**
Year: 2005 **Suggested Use(s):**
Pagination: unp.
ISBN: 0-07-824545-1
Format: Transparencies

Publisher: McGraw-Hill Ryerson Limited
Date Recommended: February 2006
Distributor: McGraw-Hill Ryerson Limited

Glencoe Chemistry: Matter and Change: Student Works Plus CD-ROM

Author(s): **Audience:** Student
Edition: **Category:**
Year: 2005 **Suggested Use(s):**
Pagination: unp.
ISBN: 0-07-867732-7
Format: CD-ROM

Publisher: McGraw-Hill Ryerson Limited
Date Recommended: February 2006
Distributor: McGraw-Hill Ryerson Limited

System Requirements:

Windows: Intel Pentium processor, Microsoft Windows 98 Second Edition, Windows Millennium Edition, Windows NT® 4.0 with Service Pack 6, Windows 2000 with Service Pack 2, Windows XP Professional or Home Edition, Windows XP Tablet PC Edition, 32MB of RAM (64MB recommended), 60MB of available hard-disk space, Internet Explorer 5.01, 5.5, 6.0, or 6.1

Macintosh: PowerPC G3 processor, Mac OS X v.10.2.2-10.3, 32MB of RAM with virtual memory on (64MB recommended), 70MB of available hard-disk space

Glencoe Chemistry: Matter and Change: Study Guide for Content Mastery: Student Edition

Author(s):		Audience:	Student
Edition:		Category:	
Year:	2005	Suggested Use(s):	
Pagination:	156 p		
ISBN:	0-07-824522-2		
Format:	Print		
Publisher:	McGraw-Hill Ryerson Limited	Date Recommended:	February 2006
Distributor:	McGraw-Hill Ryerson Limited		

Glencoe Chemistry: Matter and Change: Teacher Classroom Resources

Author(s):		Audience:	Teacher
Edition:		Category:	
Year:	2005	Suggested Use(s):	
Pagination:	unp.		
ISBN:	0-07-866579-5		
Format:	Print		
Publisher:	McGraw-Hill Ryerson Limited	Date Recommended:	February 2006
Distributor:	McGraw-Hill Ryerson Limited		

Glencoe Chemistry: Matter and Change: Teacher Wraparound Edition

Author(s):	Dingrando, L., et al	Audience:	Teacher
Edition:		Category:	
Year:	2005	Suggested Use(s):	
Pagination:	1008 p		
ISBN:	0-07-866419-5		

Format: Print

Publisher: McGraw-Hill Ryerson Limited **Date Recommended:** February 2006

Distributor: McGraw-Hill Ryerson Limited

Glencoe Chemistry: Matter and Change: TeacherWorks: All-In-One Planner and Resource Center CD-ROM

Author(s): **Audience:** Teacher

Edition: Version 15.1 **Category:**

Year: 2005 **Suggested Use(s):**

Pagination: unpaginated

ISBN: 0-07-867733-5

Format: CD-ROM

Publisher: McGraw-Hill Ryerson Limited **Date Recommended:** February 2006

Distributor: McGraw-Hill Ryerson Limited

System Requirements:

Windows: Windows 98/ME/NT/2000XP, Intel Pentium processor (166MHz or greater), 64 MB RAM, 60 MB available hard-disk space, Adobe Acrobat Reader 5.1 or Acrobat Reader 6.0.1, Internet Explorer 5.0.1 or higher, Netscape Navigator 4.77, 6.1 or higher, PostScript printer (optional), 8x CD-ROM drive

Macintosh: PowerPC processor (120 MHz or greater), Mac OS 9.1, 9.2, 9.2.2 or Mac OS X (10.1.x, 10.2.x, or 10.3.x), 64 MB RAM, 30 MB available hard drive space, Adobe Acrobat Reader 5.1 or Acrobat Reader 6.0.1, Internet Explorer 5.01 or higher, Netscape Navigator 4.77, 6.1 or higher, 8x CD-ROM drive, PostScript printer (optional)

Glencoe Chemistry: Matter and Change: Teaching Transparency Package: Color Transparencies

Author(s): **Audience:** Teacher

Edition: **Category:**

Year: 2005 **Suggested Use(s):**

Pagination: unpaginated

ISBN: 0-07-824543-5

Format: Transparencies

Publisher: McGraw-Hill Ryerson Limited
Distributor: McGraw-Hill Ryerson Limited

Date Recommended: February 2006

Prentice Hall Chemistry

Publisher : Prentice Hall Inc.

Subject / Grade

	K	1	2	3	4	5	6	7	8	9	10	11	12
Chemistry												✓	✓

Prentice Hall Chemistry (Student Edition)

Author(s): Wilbraham, A., et al
Edition:
Year: 2005
Pagination: unpag.
ISBN: 0-13-115262-9
Format: Print

Audience: Student
Category:
Suggested Use(s):

Publisher: Prentice Hall Inc.
Distributor: Pearson Education Canada

Date Recommended: February 2006

Prentice Hall Chemistry: Core Teaching Resources

Author(s):
Edition:
Year: 2005
Pagination: 869 p
ISBN: 0-13-166233-3
Format: Print

Audience: Teacher
Category:
Suggested Use(s):

Publisher: Prentice Hall Inc.
Distributor: Pearson Education Canada

Date Recommended: February 2006

Prentice Hall Chemistry: Laboratory Manual: Teacher's Edition

Author(s):	Wilbraham, A., et al	Audience:	Teacher
Edition:		Category:	
Year:	2005	Suggested Use(s):	
Pagination:	unp.		
ISBN:	0-13-190363-2		
Format:	Print		
Publisher:	Prentice Hall Inc.	Date Recommended:	February 2006
Distributor:	Pearson Education Canada		

Prentice Hall Chemistry: Laboratory Manual

Author(s):	Wilbraham, A., et al	Audience:	Student
Edition:		Category:	
Year:	2005	Suggested Use(s):	
Pagination:	292 p		
ISBN:	0-13-190359-4		
Format:	Print		
Publisher:	Prentice Hall Inc.	Date Recommended:	February 2006
Distributor:	Pearson Education Canada		

Prentice Hall Chemistry: Small-Scale Chemistry Laboratory Manual: Teacher's Edition

Author(s):	Waterman, Edward, et al	Audience:	Teacher
Edition:		Category:	
Year:	2005	Suggested Use(s):	
Pagination:	292 p		
ISBN:	0-13-190366-7		
Format:	Print		
Publisher:	Prentice Hall Inc.	Date Recommended:	February 2006
Distributor:	Pearson Education Canada		

Prentice Hall Chemistry: Small-Scale Chemistry Laboratory Manual

Author(s): Waterman, Edward, et al **Audience:** Student
Edition: **Category:**
Year: 2005 **Suggested Use(s):**
Pagination: 292 p
ISBN: 0-13-190360-8
Format: Print

Publisher: Prentice Hall Inc. **Date Recommended:** February 2006
Distributor: Pearson Education
Canada

Prentice Hall Chemistry: StudentExpress CD-ROM

Author(s): **Audience:** Student
Edition: **Category:**
Year: 2005 **Suggested Use(s):**
Pagination: unpag.
ISBN: 0-13-190437-X
Format: CD-ROM

Publisher: Prentice Hall Inc. **Date Recommended:** February 2006
Distributor: Pearson Education
Canada

System Requirements:

Windows: Windows NT4, 2000, XP, 64 MB RAM (minimum) 128 MB RAM (recommended), Internet Explorer 5.5 and 6.0 (preferred browser), Javascript and cookies enabled

Macintosh: System 9.2 or OS X, 64 MB RAM (minimum) 128 MB RAM (recommended), Internet Explorer 5.1 and 5.2 (preferred browser), Javascript and cookies enabled

Other Software needed: Shockwave Player 10.1, Flash Player 7.0, Acrobat Reader 6.0, Quicktime 5.0

Prentice Hall Chemistry: Teacher's Edition

Author(s):	Wilbraham, A., et al	Audience:	Teacher
Edition:		Category:	
Year:	2005	Suggested Use(s):	
Pagination:	unp.		
ISBN:	0-13-190357-8		
Format:	Print		
Publisher:	Prentice Hall Inc.	Date Recommended:	February 2006
Distributor:	Pearson Education Canada		

A U D I E N C E

Student

Glencoe Chemistry: Matter and Change

Glencoe Chemistry: Matter and Change (Student Text)

Glencoe Chemistry: Matter and Change: Laboratory Manual: Student Edition

Glencoe Chemistry: Matter and Change: Science Notebook

Glencoe Chemistry: Matter and Change: Student Works Plus CD-ROM

Glencoe Chemistry: Matter and Change: Study Guide for Content Mastery: Student Edition

Prentice Hall Chemistry

Prentice Hall Chemistry (Student Edition)

Prentice Hall Chemistry: Laboratory Manual

Prentice Hall Chemistry: Small-Scale Chemistry Laboratory Manual

Prentice Hall Chemistry: StudentExpress CD-ROM

Teacher

Glencoe Chemistry: Matter and Change

Glencoe Chemistry: Matter and Change: ExamView Pro Testmaker CD-ROM

Glencoe Chemistry: Matter and Change: Math Skills Transparency Package: Color Transparencies

Glencoe Chemistry: Matter and Change: Section Focus Transparency Package: Color Transparencies

Glencoe Chemistry: Matter and Change: Teacher Classroom Resources

Glencoe Chemistry: Matter and Change: Teacher Wraparound Edition

Glencoe Chemistry: Matter and Change: TeacherWorks: All-In-One Planner and Resource Center CD-ROM

Glencoe Chemistry: Matter and Change: Teaching Transparency Package: Color Transparencies

Prentice Hall Chemistry

Prentice Hall Chemistry: Core Teaching Resources

Prentice Hall Chemistry: Laboratory Manual: Teacher's Edition

Prentice Hall Chemistry: Small-Scale Chemistry Laboratory Manual: Teacher's Edition

Prentice Hall Chemistry: Teacher's Edition

GRADE

Grade 11

Glencoe Chemistry: Matter and Change

Glencoe Chemistry: Matter and Change (Student Text)

Glencoe Chemistry: Matter and Change: ExamView Pro Testmaker CD-ROM

Glencoe Chemistry: Matter and Change: Laboratory Manual: Student Edition

*Glencoe Chemistry: Matter and Change: Math Skills Transparency Package:
Color Transparencies*

Glencoe Chemistry: Matter and Change: Science Notebook

*Glencoe Chemistry: Matter and Change: Section Focus Transparency Package:
Color Transparencies*

Glencoe Chemistry: Matter and Change: Student Works Plus CD-ROM

*Glencoe Chemistry: Matter and Change: Study Guide for Content Mastery:
Student Edition*

Glencoe Chemistry: Matter and Change: Teacher Classroom Resources

Glencoe Chemistry: Matter and Change: Teacher Wraparound Edition

*Glencoe Chemistry: Matter and Change: TeacherWorks: All-In-One Planner and
Resource Center CD-ROM*

*Glencoe Chemistry: Matter and Change: Teaching Transparency Package:
Color Transparencies*

Prentice Hall Chemistry

Prentice Hall Chemistry (Student Edition)

Prentice Hall Chemistry: Core Teaching Resources

Prentice Hall Chemistry: Laboratory Manual: Teacher's Edition

Prentice Hall Chemistry: Laboratory Manual

*Prentice Hall Chemistry: Small-Scale Chemistry Laboratory Manual: Teacher's
Edition*

Prentice Hall Chemistry: Small-Scale Chemistry Laboratory Manual

Prentice Hall Chemistry: StudentExpress CD-ROM

Prentice Hall Chemistry: Teacher's Edition

Grade 12

Glencoe Chemistry: Matter and Change

Glencoe Chemistry: Matter and Change (Student Text)

Glencoe Chemistry: Matter and Change: ExamView Pro Testmaker CD-ROM

Glencoe Chemistry: Matter and Change: Laboratory Manual: Student Edition

*Glencoe Chemistry: Matter and Change: Math Skills Transparency Package:
Color Transparencies*

Glencoe Chemistry: Matter and Change: Science Notebook

*Glencoe Chemistry: Matter and Change: Section Focus Transparency Package:
Color Transparencies*

Glencoe Chemistry: Matter and Change: Student Works Plus CD-ROM

Glencoe Chemistry: Matter and Change: Study Guide for Content Mastery: Student Edition

Glencoe Chemistry: Matter and Change: Teacher Classroom Resources

Glencoe Chemistry: Matter and Change: Teacher Wraparound Edition

Glencoe Chemistry: Matter and Change: TeacherWorks: All-In-One Planner and Resource Center CD-ROM

Glencoe Chemistry: Matter and Change: Teaching Transparency Package: Color Transparencies

Prentice Hall Chemistry

Prentice Hall Chemistry (Student Edition)

Prentice Hall Chemistry: Core Teaching Resources

Prentice Hall Chemistry: Laboratory Manual: Teacher's Edition

Prentice Hall Chemistry: Laboratory Manual

Prentice Hall Chemistry: Small-Scale Chemistry Laboratory Manual: Teacher's Edition

Prentice Hall Chemistry: Small-Scale Chemistry Laboratory Manual

Prentice Hall Chemistry: StudentExpress CD-ROM

Prentice Hall Chemistry: Teacher's Edition

D I S T R I B U T O R D I R E C T O R Y

Resources in this bibliography can be purchased through the Manitoba Text Book Bureau (MTBB).

MTBB The Manitoba Text Book Bureau

Box 910
Souris, MB R0K 2C0
Toll free: 866-771-6822 (Manitoba and Saskatchewan)
Telephone: 204-483-5040
Fax: 204-483-5041
Email: mtbb@gov.mb.ca
Online catalogue: <http://www.mtbb.mb.ca>

Pearson Education Canada
A Division of Pearson Canada
26 Prince Andrew Place
Don Mills ON M3C 2T8
(416) 447-5101
(416) 443-0948
<http://www.pearsoned.ca>

McGraw-Hill Ryerson Limited
300 Water St
Whitby ON L1N 9B6
(800) 565-5758
(800) 463-5885
<http://www.mcgrawhill.ca>