



Science: Grades 5 to 8

A Reference for Selecting
Learning Resources



SCIENCE:
GRADES 5 TO 8

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Learning Resources

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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 and Training website at www.edu.gov.mb.ca/k12/learnres/shortlists.html.

Available in alternate formats upon request.

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INTRODUCTION

Reference for Selecting Learning Resources

Science: Grades 5 to 8: A Reference for Selecting Learning Resources is a reference tool provided by Manitoba Education and Training to help educators select student and teacher learning resources to support the curriculum.

Learning Resources Reviews

Publishers submitted resources for review to the Learning Resources Unit of Instruction, Curriculum and Assessment Branch 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:** the degree to which the content and processes of the resource align with the curriculum, thus providing support for curriculum implementation.
- **Instructional Design:** 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:** 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:** 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 edition of a student text.

Purchase of Learning Resources

The learning resources described in the bibliography may be available for purchase at www.mtbb.mb.ca/catalogue/en.

For information or assistance regarding the purchase of learning resources, contact:

Manitoba Learning Resources Centre (LRC)
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: www.mtbb.mb.ca/catalogue/en

TITLES AND DESCRIPTIONS

Big Idea

Publisher: Rubicon Publishing Inc.

Subject/Grade	K	1	2	3	4	5	6	7	8	9	10	11	12
English Language Arts					✓	✓	✓						
Science					✓	✓	✓						
English as an Additional Language					✓	✓	✓						

Big Idea: Science Pack ISBN 9780133768848 (12 Books)

This Canadian resource supports the integration of the English language arts practices through science and social studies concepts, while developing students' critical literacy skills. The student texts are highly visual and engaging and support the development of subject-specific vocabulary, communication skills, and critical thinking through both independent and collaborative activities. Texts are aligned with Manitoba science and social studies curricular topics and are focused on exploring over-arching essential questions. The teacher resource guide is essential and provides varied activities to guide students through each concept introduced in the text.

In addition to the student text and teacher resource guide, an online web-based resource, called *Big Idea Interactive*, provides e-texts that include optional audio recordings, text highlighting and interactive activities as well as access to an online translator.

This resource provides an integrated perspective of the multicultural nature of Canada along with highlighting the roles played by and contributions of Indigenous people.

Cautions and Considerations

Teachers should not use this as a stand-alone resource and should use it in conjunction with the teacher resource guide.

Due to the ever-changing nature of the subject matter discussed in social studies and science, some of the material may not remain current or relevant.

Teachers may want to consider that there are no explicit assessment strategies or tools outlined in the teacher guide, but many opportunities for students to demonstrate their learning in multiple ways are provided.

Big Idea: Science Pack: Body Systems

Author(s): Jane Forbes	Audience: Student, Teacher
Edition:	
Year: 2014	
Pagination: 32 p	
ISBN: 9781770587304	
Format: Print	
Publisher: Rubicon Publishing Inc.	Date Recommended: March 08, 2018
Distributor: Pearson Canada	

Big Idea: Science Pack: Chemistry

Author(s): Les Asselstine	Audience: Student, Teacher
Edition:	
Year: 2014	
Pagination: 32 p	
ISBN: 9781770587311	
Format: Print	
Publisher: Rubicon Publishing Inc.	Date Recommended: March 08, 2018
Distributor: Pearson Canada	

Big Idea: Science Pack: Diversity of Life

Author(s): Maureen Sims	Audience: Student, Teacher
Edition:	
Year: 2014	
Pagination: 32 p	
ISBN: 9781770587359	
Format: Print	
Publisher: Rubicon Publishing Inc.	Date Recommended: March 08, 2018
Distributor: Pearson Canada	

Big Idea: Science Pack: Electricity

Author(s): Catherine Little	Audience: Student, Teacher
Edition:	
Year: 2014	
Pagination: 32 p	
ISBN: 9781770587342	
Format: Print	
Publisher: Rubicon Publishing Inc.	Date Recommended: March 08, 2018
Distributor: Pearson Canada	

Big Idea: Science Pack: Flight

Author(s): Les Asselstine	Audience: Student, Teacher
Edition:	
Year: 2014	
Pagination: 32 p	
ISBN: 9781770587366	
Format: Print	
Publisher: Rubicon Publishing Inc.	Date Recommended: March 08, 2018
Distributor: Pearson Canada	

Big Idea: Science Pack: Forces and Structures

Author(s): Catherine Little	Audience: Student, Teacher
Edition:	
Year: 2014	
Pagination: 32 p	
ISBN: 9780133877410	
Format: Print	
Publisher: Rubicon Publishing Inc.	Date Recommended: March 08, 2018
Distributor: Pearson Canada	

Big Idea: Science Pack: Habitats and Communities

Author(s): Shara Dupuis	Audience: Student, Teacher
Edition:	
Year: 2014	
Pagination: 32 p	
ISBN: 9781770587281	
Format: Print	
Publisher: Rubicon Publishing Inc.	Date Recommended: March 08, 2018
Distributor: Pearson Canada	

Big Idea: Science Pack: Light and Sound

Author(s): Catherine Little	Audience: Student, Teacher
Edition:	
Year: 2014	
Pagination: 32 p	
ISBN: 9781770587274	
Format: Print	
Publisher: Rubicon Publishing Inc.	Date Recommended: March 08, 2018
Distributor: Pearson Canada	

Big Idea: Science Pack: Our Healthy World

Author(s): Jane Forbes	Audience: Student, Teacher
Edition:	
Year: 2014	
Pagination: 32 p	
ISBN: 9781770587328	
Format: Print	
Publisher: Rubicon Publishing Inc.	Date Recommended: March 08, 2018
Distributor: Pearson Canada	

Big Idea: Science Pack: Rocks and Minerals

Author(s): Judy Halpern	Audience: Student, Teacher
Edition:	
Year: 2014	
Pagination: 32 p	
ISBN: 9781770587298	
Format: Print	
Publisher: Rubicon Publishing Inc.	Date Recommended: March 08, 2018
Distributor: Pearson Canada	

Big Idea: Science Pack: Simple Machines

Author(s): Sandy Szeto	Audience: Student, Teacher
Edition:	
Year: 2014	
Pagination: 32 p	
ISBN: 9781770587373	
Format: Print	
Publisher: Rubicon Publishing Inc.	Date Recommended: March 08, 2018
Distributor: Pearson Canada	

Big Idea: Science Pack: Teacher's Guide

Author(s): Jim Cummins, et. al.	Audience: Teacher
Edition:	
Year: 2014	
Pagination: 96 p	
ISBN: 9781770587519	
Format: Print	
Publisher: Rubicon Publishing Inc.	Date Recommended: January 31, 2018
Distributor: Pearson Canada	

Big Idea: Science Pack: The Sky and Beyond

Author(s): Sonja Grcic-Stuart, Tanya Graham	Audience: Student, Teacher
Edition:	
Year: 2014	
Pagination: 32 p	
ISBN: 9781770587335	
Format: Print	
Publisher: Rubicon Publishing Inc.	Date Recommended: March 08, 2018
Distributor: Pearson Canada	

Big Idea: Science Pack: Weather

Author(s): Anita Chapman	Audience: Parent, Student
Edition:	
Year: 2014	
Pagination: 32 p	
ISBN: 9781770587380	
Format: Print	
Publisher: Rubicon Publishing Inc.	Date Recommended: March 05, 2018
Distributor: Pearson Canada	

Discovering Science

Publisher: McGraw-Hill Ryerson Limited

Subject/Grade	K	1	2	3	4	5	6	7	8	9	10	11	12
Science									✓				
English Language Arts									✓				
Health Education									✓				

This is a made-for-Canada textbook and is congruent with all of the Manitoba curriculum clusters. Almost all of the labs you would need to assign are incorporated into this text. The review sections at the end of chapters are extensive and cover many levels of questioning. The teacher resource provides thorough background and guidance on the preparation for lessons and labs, and comes with a digital exam bank on CD. The test bank includes French-language questions. The exam builder is easy to use and quickly generates tests using many different assessment instruments.

Discovering Science 8 (Student Text)

Author(s): Bocknek, Jonathan, Burnell, Jennifer, Lacy, Donald, Martha, Josef, Milross, James, Sandner, Lionel	Audience: Student
Edition:	
Year: 2009	
Pagination: 510 p	
ISBN: 978-0-07-072364-1	
Format: Print	
Publisher: McGraw-Hill Ryerson Limited	Date Recommended: April 13, 2012
Distributor: Nelson	

Discovering Science 8: Teacher's Resource (includes CD-ROM)

Author(s):	Dunlop, Jenna, Redford, Rachelle, Ross, Jim, Szeto, Sandy, Zike, Dinah	Audience:	Teacher
Edition:			
Year:	2009		
Pagination:	unp.		
ISBN:	978-0-07-072413-6		
Format:	Print/CD-ROM		
Publisher:	McGraw-Hill Ryerson Limited	Date Recommended:	April 13, 2012
Distributor:	Nelson		

Everything I Need to Know about Electricity . . . Well Almost

Publisher: Gordon Klimenko

Subject/Grade	K	1	2	3	4	5	6	7	8	9	10	11	12
Science							✓	✓	✓	✓	✓		

Everything I Need To Know About Electricity...Well Almost, was written by Gord Klimenko, a Manitoba author and mechanical/electrical/computer engineer, and Justin Currie, a Manitoba digital and print illustrator. The text and illustrations explain in five short chapters what electricity is, and how it is used to create digital information.

This laminated, softcover, highly visual book is a good resource for a teacher who wants to gain deeper understanding (beyond the curriculum) on topics including atomic theory, electricity, electromagnetism, and computer (digital) circuits, at an introductory to intermediate level.

For students who want to be challenged with deeper content exploration, this graphic-style book could also be used as an extension/enrichment resource.

Much of the text can be read at a middle year's level, while highly interesting illustrations and concrete examples show student concepts such as voltage and ASCII binary code. The illustrations also depict other models such as using cloud shapes and nesting dolls to explain energy bands; and a super soaker, water hose and taps to help explain voltage. Other concepts animated include a one-bit memory cell and a transistor on a silicon chip for video game use. The book also illustrates and explains pixels and the speed at which digital information can travel.

By providing an engaging introduction to advanced topics not usually encountered at Grade 6–10 in an format accessible to more advanced students, this book could also be used to encourage more interest in science and engineering.

Everything I Need to Know about Electricity... Well Almost: An Introduction to the Science and Engineering of Electricity in the Digital Information Age

Author(s): Gordon Klimenko

Edition:

Year: 2018

Pagination: 70 p

ISBN: 978-0-9876885-0-7

Format: Print

Publisher: Gordon Klimenko

Distributor: Friesen Press

Audience: Teacher

Date Recommended: March 08, 2018

Expert Space: Content & Tools for the 21st Century Learners

Publisher: Scholastic Canada Ltd.

Subject/Grade	K	1	2	3	4	5	6	7	8	9	10	11	12
Science					✓	✓	✓	✓	✓	✓	✓		
English Language Arts					✓	✓	✓	✓	✓	✓	✓		
Music					✓	✓	✓	✓	✓	✓	✓		
Social Studies					✓	✓	✓	✓	✓	✓	✓		
Visual Arts					✓	✓	✓	✓	✓	✓	✓		

This supplementary, web-based resource is about a space within the Internet where you can find science information to enlighten and engage Grades 4 to 10 students. Topics covered include physical sciences, the human body, technology, earth sciences, life sciences, etc. One strength is the quality of the videos and articles embedded in its multi-media sections. It is not noticeably graded, yet it matches grade level clusters and thematic topics within the science and social studies domains. There are other cross-curricular connections with the English language arts, visual arts, and music domains. Designed by Grolier, it provides teachers with lesson plans and projects as well as collections of resources on topics such as extreme weather and outer space to pique student curiosity.

Expert Space: Content & Tools for the 21st Century Learners

Author(s):		Audience:	Teacher, Student
Edition:	Canadian Edition		
Year:	2009		
Pagination:	unp.		
ISBN:			
Format:	Web-Based Resource		
Publisher:	Scholastic Canada Ltd.	Date Recommended:	April 13, 2012
Distributor:			

Hands-On Science

Publisher: Portage & Main Press

Subject/Grade

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

Hands-on Science 5: An Inquiry Approach provides support for teaching science in a manner that promotes active learning and experimentation. This user-friendly resource has a strong match with specific learning outcomes from the four thematic clusters in Grade 5. Each topic is well organized and includes science background information for teachers, as well as materials lists, suggested learning experiences, activity sheets, extensions, and assessment tools for both teacher and student use. In this new 2016 edition, Manitoba's specific student learning outcomes for science are cross-referenced.

Cautions and Considerations:

The content needs to be supplemented to achieve the depth of coverage required for some topics. This resource addresses the study of cells using the microscope, a topic not required by the Manitoba science curriculum.

Hands-On Science 5: An Inquiry Approach

Author(s): Jennifer Lawson

Edition:

Year: 2016

Pagination: 483 p

ISBN: 978-1-55379-313-7

Format: Print

Publisher: Portage & Main Press

Distributor:

Audience: Teacher, Student

Date Recommended: November 30, 2016

Hands-on Science 6: An Inquiry Approach provides support for teaching science in a manner that promotes active learning and experimentation. This user-friendly resource has a strong match with specific learning outcomes from the four thematic clusters in Grade 6. Each topic is well organized and includes science background information for teachers, as well as materials lists, suggested learning experiences, activity sheets, extensions, and assessment tools for both teacher and student use. In this new 2016 edition, Manitoba's specific student learning outcomes for science are cross-referenced.

Hands-On Science 6: An Inquiry Approach	
Author(s): Jennifer Lawson	Audience: Teacher
Edition:	
Year: 2016	
Pagination: 500 p	
ISBN: 978-1-55379-314-4	
Format: Print	
Publisher: Portage & Main Press	Date Recommended: April 13, 2017
Distributor:	

Learning A-Z: Online Curriculum Resources

Publisher: Learning A-Z, LLC

Subject/Grade

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

Learning A-Z is an online literacy based K–6 resource that extensively covers almost all Manitoba science clusters. It provides customizable lessons and informational texts in four scientific demands: Life Science, Earth and Space Science, Physical Science, and Process Science (skills and tools). Each topic/curricular area has several sources of information, such as high interest e-Books, videos, articles, etc. The teacher account provides access to e-Books, pdfs, assignments, and project-based learning opportunities. From this account, the teacher can also assign tasks and readings to students, and provide feedback for students. The website provides process and design assignments, targeting various learning styles, and annotated feedback to students.

Science A-Z

Author(s):	Learning A-Z	Audience:	Student, Teacher
Edition:			
Year:	2017		
Pagination:			
ISBN:			
Format:	Online Resource		
Publisher:	Learning A-Z, LLC	Date Recommended:	March 08, 2018
Distributor:			

Newfoundland and Labrador Science 5

Publisher: Nelson

Subject/Grade

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

Although written specifically for Newfoundland and Labrador, this resource covers the majority of the Manitoba science curricula and is a good curriculum fit. The student resource is written in a modern magazine style format that is colourful, informative, engaging, and well laid out. The teacher guide and student books are well organized and aligned to provide connections to big ideas or concepts for clustered outcomes.

Newfoundland and Labrador Science 5: Teacher's Facilitation Guide: Unit 2: Forces and Simple Machines

Author(s): Anita Chapman, Denise Pitts,
Doug Fraser

Edition:

Year: 2017

Pagination: 83 p

ISBN: 9780176705831

Format: Print

Publisher: Nelson

Distributor:

Audience: Teacher, Student

Date Recommended: March 08, 2018

Newfoundland and Labrador Science 5: Unit 1: Weather

Author(s): Anita Chapman, Christy Hayhoe,
Andrew Power, Brent Campbell

Edition:

Year: 2017

Pagination: 60 p

ISBN: 9780176705763

Format: Print

Publisher: Nelson

Distributor:

Audience: Student, Teacher

Date Recommended: March 08, 2018

Newfoundland and Labrador Science 5: Unit 1: Weather: Teacher's Facilitation Guide

Author(s): Anita Chapman, Christy Hayhoe, Andrew Power, Brent Campbell, Doug Fraser	Audience: Student, Teacher
Edition:	
Year: 2017	
Pagination: 95 p	
ISBN: 9780176705817	
Format: Print	
Publisher: Nelson	Date Recommended: March 08, 2018
Distributor:	

Newfoundland and Labrador Science 5: Unit 2: Body Systems

Author(s): Anita Chapman, Denise Pitts, Heidi Nixon	Audience: Student, Teacher
Edition:	
Year: 2017	
Pagination: 60 p	
ISBN: 9780176705794	
Format: Print	
Publisher: Nelson	Date Recommended: March 08, 2018
Distributor:	

Newfoundland and Labrador Science 5: Unit 2: Forces and Simple Machines

Author(s): Anita Chapman, Denise Pitts, Doug Fraser	Audience: Student, Teacher
Edition:	
Year: 2017	
Pagination: 60 p	
ISBN: 9780176705770	
Format: Print	
Publisher: Nelson	Date Recommended: March 05, 2018
Distributor:	

Newfoundland and Labrador Science 5: Unit 3: Properties and Changes of Materials

Author(s): Anita Chapman, Christy Hayhoe, Allison Edwards	Audience: Student, Teacher
Edition:	
Year: 2017	
Pagination: 60 p	
ISBN: 9780176705787	
Format: Print	
Publisher: Nelson	Date Recommended: March 08, 2018
Distributor:	

Newfoundland and Labrador Science 5: Unit 3: Properties and Changes of Materials: Teacher's Facilitation Guide

Author(s): Anita Chapman, Christy Hayhoe, Doug Fraser, Allison Edwards	Audience: Teacher
Edition:	
Year: 2017	
Pagination: 81 p	
ISBN: 9780176705855	
Format: Print	
Publisher: Nelson	Date Recommended: March 08, 2018
Distributor:	

Newfoundland and Labrador Science 5: Unit 4: Body Systems: Teacher's Facilitation Guide

Author(s): Anita Chapman, Doug Fraser, Heidi Nixon	Audience: Teacher
Edition:	
Year: 2017	
Pagination: 77 p	
ISBN: 9780176705879	
Format: Print	
Publisher: Nelson	Date Recommended: March 08, 2018
Distributor:	

Pearson Science

Publisher: Pearson Canada

Subject/Grade	K	1	2	3	4	5	6	7	8	9	10	11	12
Science						✓	✓	✓	✓				
Mathematics						✓	✓	✓	✓				
Social Studies								✓	✓				
English Language Arts						✓	✓						
Visual Arts						✓							

The *Pearson Science 5* student text, when used in conjunction with the teacher resource, addresses most of the specific learning outcomes from the Manitoba Grade 5 curriculum. There are many opportunities for students to engage in the inquiry and design process. The student text supports the development of scientific literacy through an authentic hands-on approach. End-of-unit summaries allow students to reflect on their learning. The design and inquiry processes employed are inclusive of diverse learners, with a focus on Indigenous perspectives. The resources detail multiple learning activities that address differentiated teaching strategies. It should be noted that examples and visuals within the texts reference Saskatchewan experiences.

Pearson Science 5 (Student Edition)

Author(s):	O'Soup, David, Racette, Calvin, View, Ted, Ellis, Laurie, Hounjet, Camille, Johanson, Terry, Walter, Carlene	Audience:	Student
Edition:	Manitoba Edition		
Year:	2012		
Pagination:	254 p		
ISBN:	978-0-13-312607-5		
Format:	Print		
Publisher:	Pearson Canada	Date Recommended:	April 13, 2012
Distributor:	Pearson Canada Inc.		

Pearson Science 5: Teacher's Resource (includes CD-ROM)

Author(s):	View, Ted, Ellis, Laurie, Walter, Carlene, Moulton, Carole, Wallace, Michelle	Audience:	Teacher
Edition:	Manitoba Edition		
Year:	2012		
Pagination:	unp.		
ISBN:	978-0-13-312550-4		
Format:	Print/CD-ROM		
Publisher:	Pearson Canada	Date Recommended:	April 13, 2012
Distributor:	Pearson Canada Inc.		

Pearson Science 6 includes Canadian technological innovations. This resource has a strong focus on cluster 0 of the Manitoba curriculum, the overall skills and attitudes of the learner. The design and inquiry processes employed are inclusive of diverse learners, with a focus on Indigenous perspectives. The resources detail multiple learning activities that address differentiated teaching strategies. It should be noted that examples and visuals within the texts reference Saskatchewan experiences. Experiments and investigations include scientific background.

Pearson Science 6 (Student Edition)	
Author(s): View, Ted, Johanson, Terry, Mohr, Penny, Treptau, Christine, Wallace, Cathy	Audience: Student
Edition: Manitoba Edition	
Year: 2009	
Pagination: 340 p	
ISBN: 978-0-13-312608-2	
Format: Print	
Publisher: Pearson Canada	Date Recommended: April 13, 2012
Distributor: Pearson Canada Inc.	

Pearson Science 6: Teacher's Resource (includes CD-ROMs)	
Author(s): View, Ted, Johanson, Terry, Mohr, Penny, Treptau, Christine, Campbell, Steve	Audience: Teacher
Edition: Manitoba Edition	
Year: 2010	
Pagination: unpaginated	
ISBN: 978-0-13-311152-1	
Format: Print/CD-ROM	
Publisher: Pearson Canada	Date Recommended: April 13, 2012
Distributor: Pearson Canada Inc.	

This learning resource is a made for Manitoba adaptation of the previously-released *Pearson Science 7*, Saskatchewan edition (2009), and provides extensive alignment with all Manitoba curriculum clusters at Grade 7. It is a first-of-a-kind in terms of Indigenous Manitoba perspectives on views of the natural and designed worlds. There are a multitude of instances where students can directly access contributions from the Manitoba Indigenous community regarding the knowledge of our region and the manner in which “place-based” thinking is complementary to traditional Eurocentric approaches to inquiring into nature and constructed systems.

Each of the four content areas of Grade 7 science (ecosystems, particle theory of matter, forces and structures, and earth’s crust and resources) are rich with a variety of activities and strategies for student success. Opportunities include independent student inquiry; self-assessment (as a Check Your Progress feature); world issues in science; large-scale, unit-oriented projects; and identifying, connecting with, and putting into practice the “big ideas” of each unit.

Most of the supplementary information for students is provided in short, accessible “infoBits” placed in the margins, and most of these are directly Manitoba contexts. A valuable Toolkits section found in the appendices of the student text provides a quick reference guide to a number of topics such as WHMIS symbols; samples of the inquiry, problem-solving and decision-making processes; how to read and research in science; and measurement and graphical representation tips.

Teachers should exercise some caution with the manner in which a *scientific theory* is presented to students in Unit 2: Cluster 4—Earth’s Crust and Resources. Teachers are encouraged to use plate tectonics as the guiding theory supporting all aspects of Cluster 4.

Pearson Science 7 (Student Edition)	
Author(s): View, Ted, Wallace, Michelle, Brockman, Annette, Doepker, Chris, Stephenson, Elizabeth	Audience: Student
Edition: Manitoba Edition	
Year: 2013	
Pagination: 409 p	
ISBN: 978-0-13-313337-0	
Format: Print	
Publisher: Pearson Canada	Date Recommended: December 12, 2013
Distributor: Pearson Canada Inc.	

This teacher resource is a made-for-Manitoba adaptation of the previously-released *Pearson Science 7*, Saskatchewan edition (2009), and provides extensive alignment with all Manitoba curriculum clusters at Grade 7.

The four content cluster areas of Manitoba Grade 7 science are covered with moderate to extensive treatment of the contents in the student edition, using a “big ideas” organization. Each section of the resource provides suggested time allotments, key terms, and at-a-glance blackline master references. Differentiation of instruction strategies are found throughout, with a concentration on EAL and student enrichment opportunities. Also included are constructivist approaches to teaching and learning, assessment “for,” “as,” and “of” learning, identifying students’ preconceptions of scientific concepts, purposeful activities, and cultural proficiency.

Each unit extensively supplements the student edition where traditional Indigenous knowledge is available. The teacher resource identifies instances where “border-crossing” can take place in the science classroom, guided by both western perspectives on the natural world and complementary worldviews held by First Nations’ peoples in Manitoba and elsewhere.

The Program Overview includes an examination of the role of Education for Sustainable Development (ESD) “green” initiatives in Manitoba.

The entire contents of the Program Overview are available in the included CD and are available in an editable and a PDF version.

Pearson Science 7: Teacher’s Resource (includes CD-ROMs)

Author(s):	View, Ted, Brockman, Annette, Doepker, Chris	Audience:	Teacher
Edition:	Manitoba Edition		
Year:	2013		
Pagination:	unp.		
ISBN:	978-0-13-312730-0		
Format:	Print/CD-ROM		
Publisher:	Pearson Canada	Date Recommended:	December 13, 2013
Distributor:	Pearson Canada Inc.		

The *Pearson Science 8* resources provide coverage of all Manitoba curriculum clusters while also encouraging students to research and investigate. Scientific world and Canadian contributions are included. The water systems cluster may require further reference to local water issues, although Manitoba flooding is included. Teachers may have to provide additional information on independent and dependent variables. The design and inquiry processes employed are inclusive of diverse learners, with a focus on Indigenous perspectives. The resources detail multiple learning activities that address differentiated teaching strategies. It should be noted that examples and visuals within the texts reference Saskatchewan experiences.

Pearson Science 8 (Student Edition)

Author(s):	View, Ted, Wallace, Michelle, Brockman, Annette, Boulton, Jeff, Johanson, Terry	Audience:	Student
Edition:	Manitoba Edition		
Year:	2010		
Pagination:	424 p		
ISBN:	978-0-13-312609-9		
Format:	Print		
Publisher:	Pearson Canada	Date Recommended:	April 13, 2012
Distributor:	Pearson Canada Inc.		

Pearson Science 8: Teacher's Resource (includes CD-ROMs)

Author(s):	View, Ted, Wallace, Michelle, Brockman, Annette, Boulton, Jeff, Johanson, Terry	Audience:	Teacher
Edition:	Manitoba Edition		
Year:	2011		
Pagination:	unp.		
ISBN:	978-0-13-507521-0		
Format:	Print/CD-ROM		
Publisher:	Pearson Canada	Date Recommended:	April 13, 2012
Distributor:	Pearson Canada Inc.		

ScienceFlix

Publisher: Scholastic Canada Ltd.

Subject/Grade

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

The *ScienceFlix* website is well organized, visually appealing, and easy to navigate. The site contains many resources, including lesson plans, project ideas, experiments, and a comprehensive list of the relevant websites. Additional features of the website include daily science news and an exploration of careers in science. This website would appeal to students of different reading and learning abilities. Students with diverse abilities will all have the opportunity to learn by choosing to read or listen to materials at three differentiated levels.

ScienceFlix

Author(s):

Audience:

Teacher, Student

Edition:

Year:

Pagination:

ISBN:

Format: Online Resource

Publisher: Scholastic Canada Ltd.

Date Recommended: March 08, 2018

Distributor:

World Book Classroom: Science Power

Publisher: World Book, Inc.

Subject/Grade	K	1	2	3	4	5	6	7	8	9	10	11	12
Science				✓	✓	✓	✓						
Family Studies				✓	✓	✓	✓						
Visual Arts				✓	✓	✓	✓						

Teachers can use this engaging, online, interactive resource to supplement their teaching with Grades 3–6 students. Not to be confused with the text of the same name, the *World Book Classroom: Science Power* can be used for whole class or individual student viewing. Students can explore the visually rich content as they would the *World Book* online. Videos, interviews, experiments, and other content related to all of the science clusters can be selected. Text-based student content is available at different reading levels. Assessment strategies are American-based and not recommended. Lesson plans are also provided online for teachers.

World Book Classroom: Science Power

Author(s):		Audience:	Student, Teacher
Edition:			
Year:			
Pagination:			
ISBN:			
Format:	Web-Based Resource		
Publisher:	World Book, Inc.	Date Recommended:	April 13, 2012
Distributor:	World Book Educational Products of Canada		

AUDIENCE

Parent

Big Idea

Big Idea: Science Pack: Weather

Student

Big Idea

Big Idea: Science Pack: Body Systems
Big Idea: Science Pack: Chemistry
Big Idea: Science Pack: Diversity of Life
Big Idea: Science Pack: Electricity
Big Idea: Science Pack: Flight
Big Idea: Science Pack: Forces and Structures
Big Idea: Science Pack: Habitats and Communities
Big Idea: Science Pack: Light and Sound
Big Idea: Science Pack: Our Healthy World
Big Idea: Science Pack: Rocks and Minerals
Big Idea: Science Pack: Simple Machines
Big Idea: Science Pack: The Sky and Beyond
Big Idea: Science Pack: Weather

Discovering Science

Discovering Science 8 (Student Text)

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Hands-On Science

Hands-On Science 5: An Inquiry Approach

Learning A-Z: Online Curriculum Resources

Science A-Z Review Access

Newfoundland and Labrador Science 5

Newfoundland and Labrador Science 5: Teacher's Facilitation Guide: Unit 2: Forces and Simple Machines

Newfoundland and Labrador Science 5: Unit 1: Weather

Newfoundland and Labrador Science 5: Unit 1: Weather: Teacher's Facilitation Guide

Newfoundland and Labrador Science 5: Unit 2: Body Systems

Newfoundland and Labrador Science 5: Unit 2: Forces and Simple Machines

Newfoundland and Labrador Science 5: Unit 3: Properties and Changes of Materials

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Pearson Science 6 (Student Edition)

Pearson Science 8 (Student Edition)

ScienceFlix

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Teacher

Big Idea

Big Idea: Science Pack: Body Systems

Big Idea: Science Pack: Chemistry

Big Idea: Science Pack: Diversity of Life

Big Idea: Science Pack: Electricity

Big Idea: Science Pack: Flight

Big Idea: Science Pack: Forces and Structures

Big Idea: Science Pack: Habitats and Communities

Big Idea: Science Pack: Light and Sound

Big Idea: Science Pack: Our Healthy World

Big Idea: Science Pack: Rocks and Minerals

Big Idea: Science Pack: Simple Machines

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Newfoundland and Labrador Science 5: Unit 2: Forces and Simple Machines

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GRADES

Kindergarten

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Grade 1

Learning A-Z: Online Curriculum Resources

Science A-Z Review Access

Grade 2

Learning A-Z: Online Curriculum Resources

Science A-Z Review Access

Grade 3

Learning A-Z: Online Curriculum Resources

Science A-Z Review Access

Grade 4

Big Idea

Big Idea: Science Pack: Body Systems

Big Idea: Science Pack: Chemistry

Big Idea: Science Pack: Flight

Big Idea: Science Pack: Forces and Structures

Big Idea: Science Pack: Habitats and Communities

Big Idea: Science Pack: Light and Sound

Big Idea: Science Pack: Our Healthy World

Big Idea: Science Pack: Rocks and Minerals

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Grade 5

Big Idea

Big Idea: Science Pack: Body Systems
Big Idea: Science Pack: Chemistry
Big Idea: Science Pack: Diversity of Life
Big Idea: Science Pack: Electricity
Big Idea: Science Pack: Flight
Big Idea: Science Pack: Forces and Structures
Big Idea: Science Pack: Habitats and Communities
Big Idea: Science Pack: Light and Sound
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ScienceFlix

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Grade 6

Big Idea

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Big Idea: Science Pack: Chemistry

Big Idea: Science Pack: Diversity of Life

Big Idea: Science Pack: Electricity

Big Idea: Science Pack: Flight

Big Idea: Science Pack: Forces and Structures

Big Idea: Science Pack: Habitats and Communities

Big Idea: Science Pack: Light and Sound

Big Idea: Science Pack: Our Healthy World

Big Idea: Science Pack: Rocks and Minerals

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Grade 8

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Grade 9

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Grade 10

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