

2011  
Saskatchewan  
Additional Learning Resources

# Science

# 5





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**Science:**

**Additional Learning Resources 5**

**Prepared by:**

**Student Achievement and Supports Branch**

**Ministry of Education**

**2011**

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Science: additional learning resources 5

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I. Saskatchewan. Ministry of Education. Student Achievement and Supports Branch.

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016.37235

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## Foreword

This list of learning resources identifies high-quality resources that have been recommended by the Ministry of Education to support the curriculum, *Science 5*. This list will be updated as new resources are recommended and older ones are no longer available. A list of core learning resources can be found on the Ministry of Education website.

(CAN) indicates that a Canadian contributed to the development of the resource and/or that it includes Canadian content. (SK) indicates that a Saskatchewan person contributed to the development of the resource and/or that it includes Saskatchewan content. (FNMI) indicates that a First Nations, Métis, or Inuit person contributed to the development of the resource and/or that it includes First Nations, Métis, or Inuit content.

Recommended Online Video Education Resources (ROVER) offers video programs that have been purchased by the ministry for use in PreK-12 schools. Each recommended program contains a hyperlink directly to the program and accompanying resources (if provided).

Other resources beyond those recommended in this list may effectively support the curriculum, *Science 5*. It remains the responsibility of educators to preview and select materials that best meet the needs of their students, school, and community. Educators should choose these materials in accordance with the school division's learning resources selection policy.

Pricing of the learning resources included in this document is subject to change without notice.

Supplies are an essential component of an effective science program, leading to the development of deeper understanding of scientific concepts through hands-on inquiry. Some supplies may be collected; others may be constructed; and many may be purchased. School divisions may wish to purchase and assemble kits to support units of study that can be shared among schools. Schools may wish to purchase general supplies that should be available in every school.

The Ministry of Education expresses its appreciation to publishers, producers, and distributors who have provided learning resources for evaluation, and gratefully acknowledges the contributions made by educators who served as evaluators.



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## Print, Audio-visual, and Other Resources

### The Adventures of a Plastic Bottle: A Story about Recycling

**Author:** Inches, Alison

**Illustrator:** Whitehead, Pete

#### Annotation

Students will enjoy following the journey of a plastic bottle. Starting as a blob of crude oil, the oil is cleaned and changed into forms that people can use to make things. As the material is passed through the manufacturing process, it is moulded into a plastic bottle, filled, and shipped to stores. When the bottle is recycled, it is transformed into another useful item – a fleece coat!

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

#### Suggested Uses

Properties and Changes of Materials (Gr. 5)

Using Objects and Materials (Gr. 1)

Liquids and Solids (Gr. 2)

#### Publisher/Distributor

Simon & Schuster Canada

166 King St, Suite 300

TORONTO ON M5A 1J3

(800) 387-0446

(647) 427-8882

Fax: (647) 430-9446

Email: [customerservice@simonandschuster.ca](mailto:customerservice@simonandschuster.ca)

Website: [www.simonandschuster.ca](http://www.simonandschuster.ca)

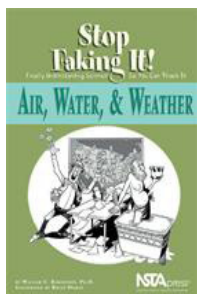
**Price:** \$4.50 pbk.

**Pagination:** 24 p.

**ISBN:** 978-1-416-96788-0

**Copyright:** 2009

**Year Recommended:** 2011



## Air, Water, & Weather: Stop Faking It! Finally Understanding Science So You Can Teach It

**Author:** Robertson, William C.

**Illustrator:** Diskin, Brian

### Annotation

*Air, Water, & Weather* is designed to help educators develop a deep understanding of the basics of phenomena, such as air pressure. The author starts with basic properties of air and water. Topics in the book include learning about pressure, the Coriolis force, the Bernoulli Effect, density, explanations of why hot air does not rise all by itself, and why heating air does not necessarily cause it to expand.

These concepts form a foundation for explanations of weather patterns including the jet stream, storm fronts, and the formation of tornadoes and hurricanes. Each chapter has two sections: "Things to Do before You Read the Science Stuff" and "The Science Stuff"

The book includes suggested activities, a table of contents, a glossary, and an index.

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

### Suggested Uses

Weather

Professional Resource

### Publisher/Distributor

National Science Teachers Association

PO Box 90214

WASHINGTON DC 20090

(800) 277-5300

(301) 638-0200

Fax: (888) 433-0526

Email: [pubinfo@nsta.org](mailto:pubinfo@nsta.org)

Website: [www.nsta.org](http://www.nsta.org)

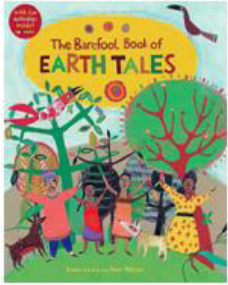
**Price:** \$24.95 U.S. pbk.

**Pagination:** 134 p.

**ISBN:** 978-0-87355-238-7

**Copyright:** 2005

**Year Recommended:** 2011



## The Barefoot Book of Earth Tales

**Author:** Casey, Dawn

**Illustrator:** Wilson, Anne

### Annotation

In this collection of narratives, readers will discover how various cultures celebrate our connection with nature and will be reminded how important it is to take care of Mother Earth. The narratives will increase understanding of our relationship with the land, celebrate the beauty of the natural world, and share wisdom to take care of the Earth. The text includes a table of contents and a suggested activity to accompany each narrative.

Note: This resource has also been recommended to support the arts education and English language arts curricula at the Elementary Level.

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

### Suggested Uses

Weather (Gr. 5)

Needs and Characteristics of Living Things (Gr. 1)

Air and Water in the Environment (Gr. 2)

Animal Growth and Changes (Gr. 2)

Plant Growth and Changes (Gr. 3)

Habitats and Communities (Gr. 4)

### Publisher

Barefoot Books, Incorporated

### Distributor

Fire the Imagination

21 Suffolk St W

GUELPH ON N1H 2H9

(888) 780-0864

Fax: (888) 780-0864

Email: [info@firetheimagination.ca](mailto:info@firetheimagination.ca)

Website: [www.firetheimagination.ca](http://www.firetheimagination.ca)

**Price:** \$24.99 hdc.

**Pagination:** 96 p.

**ISBN:** 978-1-8468-6224-3

**Copyright:** 2009

**Year Recommended:** 2011

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## The Changing Phases of Matter

### Annotation

In this DVD program, students will examine how a substance, such as water, exists in different phases. The examples provided in the program illustrate how phase changes occur. Students will learn about states of matter, particles, solid, liquid, gas, plasma, melting, freezing, vaporization, boiling, evaporation, condensation, and sublimation.

A teacher's guide is available.

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

### Suggested Uses

Properties and Changes of Materials (Gr. 5)

Mixtures and Solutions (Gr. 7)

### Producer

Visual Learning Company

### Distributor

ROVER

(Recommended Online Video Education Resources)

(866) 933-8333 (for technical inquiries or support)

Email: NetworkServices@gov.sk.ca

Website: <http://rover.edonline.sk.ca/index.htm>

**Price:** \$Free (within Saskatchewan PreK-12 schools)

**Length:** 14 min.

**ID Number:** N633

**Copyright:** 2009

**Year Recommended:** 2011

**Expiry Date:** July 1, 2016



## The Chinese Thought of It: Amazing Inventions and Innovations

**Author:** Ye, Ting-xing

### Annotation

**(CAN)** The Chinese people used the resources around them to improve their lives. Travel and trade were facilitated with the development of the paddleboat. The dragon-spine water lift allowed the Chinese to move water from the river to a field or reservoir. The Chinese were among the first to invent processes for working with metal. Health and healing practices, such as inoculations, are believed to be used as early as the 10th century CE.

The book includes photographs, illustrations, a table of contents, a note on the symbols used in the book, and an index.

Note: This resource has also been recommended to support the social studies curriculum at the Middle Level.

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

### Suggested Uses

Forces and Simple Machines (Gr. 5)  
 Human Body Systems (Gr. 5)  
 Properties and Changes of Materials (Gr. 5)  
 Magnetism and Static Electricity (Gr. 3)  
 Structures and Materials (Gr. 3)

### Publisher

Annick Press

### Distributor

Firefly Books Ltd.  
 66 Leek Cr  
 RICHMOND HILL ON L4B 1H1  
 (800) 450-0391  
 Fax: (416) 499-8313  
 Email: [service@fireflybooks.com](mailto:service@fireflybooks.com)  
 Website: [www.fireflybooks.com](http://www.fireflybooks.com)

**Price:** \$9.95 pbk.

**Pagination:** 48 p.

**ISBN:** 978-1-55451-195-2

**Copyright:** 2009

**Year Recommended:** 2011

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## Earth Matters: An Encyclopedia of Ecology

**Editor:** de Rothschild, David

### Annotation

Using a biome structure, *Earth Matters* examines the planet, issues a warning to protect it, and provides suggestions to make a positive change. The unifying theme throughout the book is Earth's ecology. Each section within the resource examines a biome and reveals how human interference can upset the balance within the biome. A map outlines each biome with additional information on climate, natural history, and ecology. Further information discusses threats humans pose to each biome and how positive changes can preserve the biome.

Included in the book are a table of contents and an index.

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

### Suggested Uses

Weather (Gr. 5)

Habitats and Communities (Gr. 4)

Exploring Soils (Gr. 3)

### Publisher

Dorling Kindersley

### Distributor

Penguin (Group) Canada

90 Eglinton Ave E, Suite 700

TORONTO ON M4P 2Y3

(800) 399-6858

(416) 925-2249

Fax: (800) 363-2665

Email: [online@ca.penguin.com](mailto:online@ca.penguin.com)

Website: [www.penguin.ca](http://www.penguin.ca)

**Price:** \$27.99 hdc.

**Pagination:** 256 p.

**ISBN:** 978-0-7566-3435-3

**Copyright:** 2008

**Year Recommended:** 2011

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## Everyday Simple Machines

### Annotation

This DVD program examines simple machines and demonstrates how they make our lives easier. Six types of simple machines are explored: inclined planes, wedges, screws, wheels and axles, and pulleys.

A teacher's guide is available.

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

### Suggested Use

Forces and Simple Machines

### Producer

Visual Learning Company

### Distributor

ROVER

(Recommended Online Video Education Resources)

(866) 933-8333 (for technical inquiries or support)

Email: [NetworkServices@gov.sk.ca](mailto:NetworkServices@gov.sk.ca)

Website: <http://rover.edonline.sk.ca/index.htm>

**Price:** \$Free (within Saskatchewan PreK-12 schools)

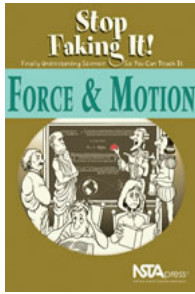
**Length:** 15 min.

**ID Number:** N646

**Copyright:** 2008

**Year Recommended:** 2011

**Expiry Date:** July 1, 2016



## Force & Motion: Stop Faking It!: Finally Understanding Science So You Can Teach It

**Author:** Robertson, William C.

**Illustrator:** Diskin, Brian

### Annotation

*Force & Motion* describes how Isaac Newton viewed the relationship between forces and between forces and changes in motion. Other concepts that are examined include the force of gravity and circular motion. Most of the ideas presented in the resource are pulled together by describing how to get a rocket ship to the moon. Each chapter has two sections: "Things to Do before You Read the Science Stuff" and "The Science Stuff."

The book includes suggested activities, a table of contents, a glossary, and an index.

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

### Suggested Uses

Forces and Simple Machines  
Professional Resource

### Publisher/Distributor

National Science Teachers Association  
PO Box 90214  
WASHINGTON DC 20090  
(800) 277-5300  
(301) 638-0200  
Fax: (888) 433-0526  
Email: [pubsales@nsta.org](mailto:pubsales@nsta.org)  
Website: [www.nsta.org](http://www.nsta.org)

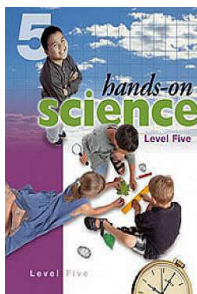
**Price:** \$22.95 U.S. pbk.

**Pagination:** 100 p.

**ISBN:** 978-0-87355-209-7

**Copyright:** 2005

**Year Recommended:** 2011



## Hands-on Science 5. WNCP ed.

**Authors:** Lawson, Jennifer; Bowman, Joni; Cielen, Randy; Pattenden, Carol; and Platt, Rita D.

### Annotation

**(CAN, WNCP)** The series consists of a teacher resource with four modules. The teacher resource offers an introduction to the *Hands-on Science* program, which includes its guiding principles, implementation guidelines, an overview of the science skills that Grade 5 students use and develop, and a classroom assessment plan with record-keeping templates.

Each unit is divided into lessons that include:

- materials lists
- activity descriptions
- questioning techniques
- activity centre and extension ideas
- assessment suggestions
- activity sheets and visuals.

The four unit titles are “Maintaining a Healthy Body,” “Properties and Changes in Substances,” “Forces and Simple Machines,” and “Weather.”

Also included are a table of contents, children’s literature lists, references for teachers, and websites.

Note: The Ministry of Education has not evaluated the websites mentioned in this resource.

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

### Suggested Uses

Forces and Simple Machines

Human Body Systems

Properties and Changes of Materials

Weather

### Publisher/Distributor

Portage & Main Press

100 – 318 McDermot Ave

WINNIPEG MB R3A 0A2

(800) 667-9673

(204) 987-3500

Fax: (866) 734-8477

Email: [books@pandmpress.com](mailto:books@pandmpress.com)

Website: [www.portageandmainpress.com](http://www.portageandmainpress.com)

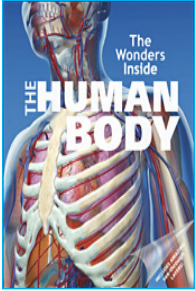
**Price:** \$89.00 coil-bound

**Pagination:** 32 p.

**ISBN:** 978-1-894110-56-3

**Copyright:** 2000

**Year Recommended:** 2000



## The Human Body

**Author:** Stradling, Jan

### Annotation

This book from the *Wonders Inside Series* allows students to explore the human body, from your head to toes, inside and out. The illustrations provide a close-up view of the body systems, and acetate layers add details. Students will see cross-sections of bones, muscles, organs, veins, and cells.

The text includes a table of contents, a glossary, and an index.

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

### Suggested Use

Human Body Systems

### Publisher

Silver Dolphin Books

### Distributor

Raincoast Books  
 2440 Viking Way  
 RICHMOND BC V6V 1N2  
 (800) 663-5714  
 (604) 448-7100  
 Fax: (800) 565-3770  
 Email: info@raincoast.com  
 Website: www.raincoast.com

**Price:** \$24.95 hdc.

**Pagination:** 90 p.

**ISBN:** 978-1-57145-718-9

**Copyright:** 2009

**Year Recommended:** 2011

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## Human Body Systems

### Annotation

In this DVD program, human body systems are examined. Using computer and graphic animation, the structure and function of the lungs, the heart, and the skeleton are explored. Photos of a sheep's organs and human skeleton help foster understanding of how the lungs exchange gas, how the heart pumps, and how the skeleton supports the body and allows it to move.

A teacher's guide is available.

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

### Suggested Use

Human Body Systems

### Producer

Benchmark Media

### Distributor

ROVER

(Recommended Online Video Education Resources)

(866) 933-8333 (for technical inquiries or support)

Email: NetworkServices@gov.sk.ca

Website: <http://rover.edonline.sk.ca/index.htm>

**Price:** \$Free (within Saskatchewan PreK-12 schools)

**Length:** 15 min.

**ID Number:** TBA

**Copyright:** 2008

**Year Recommended:** 2011

**Expiry Date:** July 1, 2016

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## **Integrating Science with Mathematics & Literacy: New Visions for Learning and Assessment. 2nd ed.**

**Authors:** Hammerman, Elizabeth and Musial, Diann

### **Annotation**

The authors provide suggestions for integrating science with mathematics and literacy. They encourage teachers to develop reliable processes for assessing both their teaching practice and student learning. Included in the book are over 20 performance assessments to promote student engagement. The assessment models inquiry-based science to allow learners to demonstrate their understanding of concepts through exploration, inquiry, and application.

The book includes a table of contents, an appendix, a reference list, a bibliography, and an index.

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

### **Suggested Use**

Professional Resource

### **Publisher**

Corwin Press

### **Distributor**

Sage Publications  
2455 Teller Rd  
NEWBURY PARK CA 91320  
(800) 818-7243  
Fax: (800) 583-2665  
Email: books.caim@sagepub.com  
Website: www.sagepub.com

**Price:** \$33.95 U.S. pbk.

**Pagination:** 177 p.

**ISBN:** 978-1-4129-5564-5

**Copyright:** 2007

**Year Recommended:** 2011



## The Inuit Thought of It: Amazing Arctic Innovations

**Authors:** Ipellie, Alootook and MacDonald, David

### Annotation

**(CAN, FNMI)** The Inuit survived harsh living conditions for hundreds of years without modern conveniences. The authors highlight some of the technologies that the Inuit used to survive in the north. Some of these technologies are used today with a modern twist, such as the kayak and snow goggles.

The book includes photographs, illustrations, a table of contents, a note on the symbols used in the book, and an index.

Note: This resource has also been recommended to support the social studies curriculum at the Grade 5 and 7 levels.

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

### Suggested Uses

Forces and Simple Machines  
Human Body Systems

### Publisher

Annick Press

### Distributor

Firefly Books Ltd.  
66 Leek Cr  
RICHMOND HILL ON L4B 1H1  
(800) 450-0391  
Fax: (416) 499-8313  
Email: [service@fireflybooks.com](mailto:service@fireflybooks.com)  
Website: [www.fireflybooks.com](http://www.fireflybooks.com)

**Price:** \$9.95 pbk.

**Pagination:** 48 p.

**ISBN:** 978-1-55451-087-0

**Copyright:** 2007

**Year Recommended:** 2011

## The Kids' Guide to Disease & Wellness: Why People Get Sick & How They Can Stay Well Series

**Author:** Simons, Rae

### Annotation

**(CAN)** This series examines the human body and disease. Each text contains information about causes of disease, prevention, medical advancements, and current research. Each text includes boxes that provide vocabulary terms, which students should know. A real-life situation demonstrates how an individual copes with the disease that is addressed.

Each book includes a table of contents, suggestions for further research, and an index. The series is American, but focuses on children and facts from around the world, including Canada.

Note: The websites listed in this resource have not been evaluated by the Ministry of Education.

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

### Suggested Use

Human Body Systems

### Publisher

Alphahouse Publishing

### Distributor

Saunders Book Company

PO Box 308

COLLINGWOOD ON L9Y 3Z7

(800) 461-9120

Fax: (800) 561-1763

Email: support.orders@librarybooks.com

Website: <http://librarybooks.com>

**Price:** \$24.95 each hdc.

\$356.50 – series

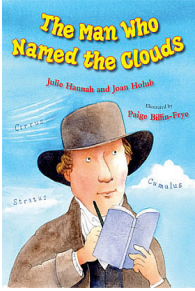
**Pagination:** 106 p.

**ISBN:** 978-0-87355-215-8

**Copyright:** 2003

**Year Recommended:** 2007

Title	ISBN
<i>AIDS &amp; HIV: The Facts for Kids</i>	978-1-934970-20-1
<i>Bugs Can Make You Sick!</i>	978-1-934970-12-6
<i>Cancer &amp; Kids</i>	978-1-934970-14-0
<i>Kids &amp; Diabetes</i>	978-1-934970-17-1
<i>Malnutrition &amp; Kids</i>	978-1-934970-19-5
<i>Things You Can't See Can Make You Sick!</i>	978-1-934970-16-4
<i>What Causes Allergies?</i>	978-1-934970-18-8
<i>Why Can't I Breathe?: Kids &amp; Asthma</i>	978-1-934970-15-7



## The Man Who Named the Clouds

**Author:** Hannah, Julie and Holub, Joan

**Illustrator:** Billin-Frye, Paige

### Annotation

As a young boy growing up in the 1700s, Luke Howard wondered about the weather. He noticed that there were different kinds of clouds. At the age of 10, Luke started a weather journal. As an adult, he created a system for naming the different cloud types. Interspersed throughout the text are illustrations that Howard drew to study clouds.

The book is presented in the form of a contemporary child's monthly weather journal, and includes a bibliography.

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

### Suggested Use

Weather

### Publisher

Albert Whitman & Company

### Distributor

Thomas Allen & Son Limited

390 Steelcase Rd E

MARKHAM ON L3R 1G2

(800) 387-4333

(905) 475-9126

Fax: (800) 458-5504

Email: [info@t-allen.com](mailto:info@t-allen.com)

Website: [www.thomasallen.ca/site/index.aspx](http://www.thomasallen.ca/site/index.aspx)

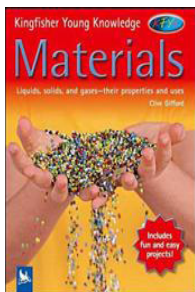
**Price:** \$18.99 hdc.

**Pagination:** 40 p.

**ISBN:** 978-0-8075-4974-2

**Copyright:** 2006

**Year Recommended:** 2011



## Materials: Liquids, Solids, and Gases: Their Properties and Uses

**Author:** Gifford, Clive

### Annotation

Gifford provides information on matter and materials. Students will learn why some materials sink or float, why other materials can be bent or stretched, and why some materials can be used as building blocks. Gifford discusses natural and manufactured materials and provides examples of each type. At the end of the book are activities for students to try using various materials that can be found at school or in the home. The book includes a table of contents, projects, and an index.

Note: This resource has also been recommended to support the Kindergarten curriculum.

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

### Suggested Uses

Properties and Changes of Materials (Gr. 5)  
Structures and Materials (Gr. 3)  
Objects and Materials (K)  
Using Objects and Materials (Gr. 1)  
Liquids and Solids (Gr. 2)

### Publisher

Kingfisher

### Distributor

H. B. Fenn & Company Ltd.  
34 Nixon Rd  
BOLTON ON L7E 1W2  
(800) 267-3366  
(905) 951-6600  
Fax: (800) 465-3422  
Email: sales@hbfenn.com  
Website: www.hbfenn.com

**Price:** \$10.95 pbk.

**Pagination:** 48 p.

**ISBN:** 978-0-7534-5867-9

**Copyright:** 2005

**Year Recommended:** 2011

## Moko: The Young Explorer

### Annotation

**(CAN)** Moko is a young and curious explorer. Moko constantly questions everything that interests him. Each animated episode depicts an adventure where Moko is seeking an answer to his question, and ends with a short response to the question.

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

### Producer

Fllmoption International

### Distributor

ROVER

(Recommended Online Video Education Resources)

(866) 933-8333 (for technical inquiries or support)

Email: NetworkServices@gov.sk.ca

Website: <http://rover.edonline.sk.ca/index.htm>

**Price:** \$Free (within Saskatchewan PreK-12 schools)

**Length:** 5 min. each

**Copyright:** 2009

**Year Recommended:** 2011

**Expiry Date:** TBA

Title	Annotation	Suggested Use	ID Number
<i>The Changing Moon</i>	Moko observes the shape of the moon as it goes through its phases.	Daily and Seasonal Changes (Gr. 1)	TBA
<i>The Colors of the Rainbow</i>	Moko learns about rainbows.	Light (Gr. 4)	TBA
<i>The Desert Wind</i>	A sand storm called a "harmattan" engulfs Moko.	Weather (Gr. 5)	TBA
<i>The Hidden Spring</i>	Moko meets a man (a diviner), who uses a stick to find water.	Air and Water in the Environment (Gr. 5)	TBA
<i>The Hill of Fire</i>	Moko learns to observe nature before a thunderstorm strikes.	Daily and Seasonal Changes (Gr. 1)	TBA
<i>Hills of the Round Earth</i>	Moko is off to see if the Earth is round.	Habitats and Communities (Gr. 4)	TBA
<i>The Missing Sun</i>	Moko wonders why the sun disappears during the day.	Daily and Seasonal Changes (Gr. 1)	TBA
<i>The Other End of the World</i>	Moko encounters a tornado as he travels to the other side of the sea.	Weather (Gr. 5)	TBA
<i>The Rainy Season</i>	Moko discovers that the rainy season allows vegetation to grow.	Daily and Seasonal Changes (Gr. 1) Air and Water in the Environment (Gr. 2) Plant Growth and Changes (Gr. 3)	TBA
<i>The Salt in the Sea</i>	Moko discovers that sea water is salty.	Air and Water in the Environment (Gr. 2)	TBA
<i>The Sand Rose</i>	Moko's gift, a rose, wilts in the heat. Another gift, the sand rose, is created by water and sand.	Exploring Soils (Gr. 3) Properties and Changes of Materials (Gr. 5)	TBA
<i>The Secret Garden</i>	While travelling to the Sea of Sand, Moko discovers an oasis.	Plant Growth and Changes (Gr. 3)	TBA
<i>The Secret of the Stars</i>	Moko wonders where stars originated.	Daily and Seasonal Changes (Gr. 1)	TBA



## A Native American Thought of It: Amazing Inventions and Innovations

**Authors:** Landon, Rocky and MacDonald, David

### Annotation

**(CAN, FNMI)** First Nations people relied on their ingenuity to use the available resources around them. This resulted in many developments that made life easier for the communities. For example, the Iroquois were skilled at growing and harvesting food, and the Sioux and Comanche developed camouflage and decoys to make catching animals easier.

The book includes photographs, illustrations, a table of contents, a note on the symbols used in the book, and an index. American and Canadian First Nations contributions are discussed in the book.

Note: The book uses American terminology, such as Native American. Terminology usage should be discussed in class.

Note: This resource has also been recommended to support the social studies curriculum at the Grades 4 and 5 levels.

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

### Suggested Uses

Forces and Simple Machines  
Human Body Systems

### Publisher

Annick Press

### Distributor

Firefly Books Ltd.  
66 Leek Cr  
RICHMOND HILL ON L4B 1H1  
(800) 450-0391  
Fax: (416) 499-8313  
Email: [service@fireflybooks.com](mailto:service@fireflybooks.com)  
Website: [www.fireflybooks.com](http://www.fireflybooks.com)

**Price:** \$9.95 pbk.

**Pagination:** 48 p.

**ISBN:** 978-1-55451-154-9

**Copyright:** 2008

**Year Recommended:** 2011

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## Ouch!: How Your Body Makes It through A Very Bad Day

**Author:** Walker, Richard

### Annotation

Using one day as a timeline, students are taken on a journey of what a human body may go through, such as pus-filled pimples to pathogens and parasites. Using a nanocam, students will be able to view close-up how the body deals with problems and emergencies. The CD-ROM includes 10 colour animations. The book includes a table of contents, a glossary, body systems descriptors, and an index.

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

### Suggested Uses

Human Body Systems (Gr. 5)  
Cells, Tissues, Organs, and Systems (Gr. 8)

### Publisher

Dorling Kindersley Ltd.

### Distributor

Penguin (Group) Canada  
90 Eglinton Ave E, Suite 700  
TORONTO ON M4P 2Y3  
(800) 399-6858  
(416) 925-2249  
Fax: (800) 363-2665  
Email: [online@ca.penguin.com](mailto:online@ca.penguin.com)  
Website: [www.penguin.ca](http://www.penguin.ca)

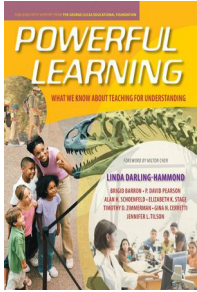
**Price:** \$11.99 pbk.

**Pagination:** 71 p.

**ISBN:** 978-0-7566-5813-7

**Copyright:** 2007

**Year Recommended:** 2008



## Powerful Learning: What We Know about Teaching for Understanding

**Authors:** Darling-Hammond, Linda; Barron, Brigid; Pearson, David P.; Schoenfeld, Alan H.; Stage, Elizabeth K.; Zimmerman, Timothy D.; Cervetti, Gina N.; and Tilson, Jennifer L.

### Annotation

The authors provide a number of teaching practices including project-based learning, co-operative learning, performance-based assessment, as well as instructional strategies in literacy, mathematics, and science.

There are examples that show how educators can enable students to think critically, transfer skills and knowledge, and be flexible problem solvers, both inside and outside the classroom.

The book includes a table of contents, an appendix, a bibliography, and a subject index.

Online videos at [www.edutopia.org](http://www.edutopia.org) demonstrate how the models generate student understanding.

Note: This resource has also been recommended to support the mathematics curriculum at the Elementary Level and the Kindergarten curriculum.

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

### Suggested Use

Professional Resource

### Publisher

Jossey-Bass

### Distributor

John Wiley & Sons Canada Ltd.  
6045 Freemont Blvd  
MISSISSAUGA ON L5R 4J3  
(800) 567-4797  
Fax: (800) 565-6802  
Email: [canada@wiley.com](mailto:canada@wiley.com)  
Website: <http://ca.wiley.com/>

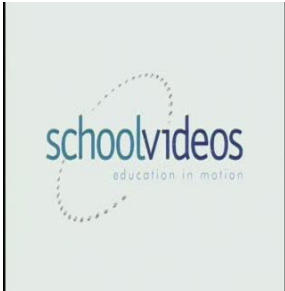
**Price:** \$33.99 spiral-bound

**Pagination:** 288 p.

**ISBN:** 978-0-470-27667-9

**Copyright:** 2008

**Year Recommended:** 2011



## Properties of Matter

### Annotation

These DVD programs introduce the properties of matter to young students.

In Part 1, students visit the “matter kitchen” where they learn to use their senses to identify the properties of objects: size, weight, shape, colour, and temperature. They also learn about some of the tools used to measure the properties of matter and that matter has mass, takes up space, and can exist in different states.

In Part 2, students learn that matter is everywhere and in everything. They also learn that all matter has mass, takes up space, and that they can use their five senses to increase their knowledge about matter in its various forms.

A teacher’s guide is available.

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

### Suggested Uses

Properties and Changes of Materials (Gr. 5)

Liquids and Solids (Gr. 2)

### Producer

100% Educational Video/School Media Inc.

### Distributor

ROVER

(Recommended Online Video Education Resources)

(866) 933-8333 (for technical inquiries or support)

Email: NetworkServices@gov.sk.ca

Website: <http://rover.edonline.sk.ca/index.htm>

**Price:** \$Free (within Saskatchewan PreK-12 schools)

**Length:** 20 min. each

**Copyright:** 2003

**Year Recommended:** 2011

**Expiry Date:** July 1, 2016

Title	ID Number
Part 1	V3295
Part 2	V3296



## Readings in Science Methods, K-8

**Editor:** Brunsell, Eric

### Annotation

This collection of NSTA journal articles allows practising teachers to reflect on what is already known in their science teaching. The contributors provide suggestions for new approaches to teach classroom science. The articles are organized into seven sections:

- "Nature of Science and Science Inquiry"
- "Teaching Science"
- "Science for All"
- "Science-teaching Toolbox"
- "Teaching Life and Environmental Science"
- "Teaching Physical Science"
- "Teaching Earth and Space Science."

The book includes a table of contents, appendices, and an index.

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

### Suggested Use

Professional Resource

### Publisher/Distributor

National Science Teachers Association  
PO Box 90214

WASHINGTON DC 20090

(800) 277-5300

(301) 638-0200

Fax: (888) 433-0526

Email: [pubinfo@nsta.org](mailto:pubinfo@nsta.org)

Website: [www.nsta.org](http://www.nsta.org)

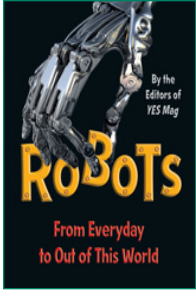
**Price:** \$31.95 U.S. pbk.

**Pagination:** 470 p.

**ISBN:** 978-1-93353-138-0

**Copyright:** 2008

**Year Recommended:** 2011



## Robots: From Everyday to Out of This World

**Authors:** Editors of *YES Mag: The Science Magazine for Adventurous Minds*

### Annotation

**(CAN)** Robots are used to defuse bombs, assemble cars, explore Mars, and assist surgeons. In this text, students will examine some of the earliest robots, many of which were simple machines designed to make life easier. As people experimented and invented, robots continued to evolve into the more sophisticated machines that are found in today's society. The authors also discuss the future of robotics.

The text includes a table of contents, a glossary, and an index.

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

### Suggested Use

Forces and Simple Machines

### Publisher

Kids Can Press

### Distributor

University of Toronto Press

5201 Dufferin St

DOWNSVIEW ON M3H 5T8

(866) 481-5827

Fax: (800) 221-9985

Email: [utpbooks@utpress.utoronto.ca](mailto:utpbooks@utpress.utoronto.ca)

Website: [www.utppress.utoronto.ca/uto\\_H3.htm](http://www.utppress.utoronto.ca/uto_H3.htm)

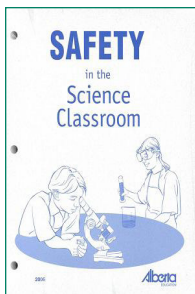
**Price:** \$8.95 pbk.

**Pagination:** 48 p.

**ISBN:** 978-1-55453-204-9

**Copyright:** 2008

**Year Recommended:** 2011



## Safety in the Science Classroom: Kindergarten to Grade 12

### Annotation

**(CAN)** This is a comprehensive manual regarding science safety. While Part A focuses on general safety management, Part B contains specific information around safety, storage, and management of chemical, biological, and physical hazards in the classroom. Appendices include examples of science safety rules and procedures, sample student safety contracts, and a chemical laboratory safety inspection checklist. Many additional resources and contacts are listed, but are specific to Alberta.

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

### Suggested Use

Professional Resource

### Publisher

Alberta Education

### Distributor

Alberta Education  
Learning Resources Centre  
12360 - 142 St NW  
EDMONTON AB T5L 4X9  
(780) 427-2767  
(780) 427-5775  
Fax: (780) 422-9750  
Email: [lrccustserv@gov.ab.ca](mailto:lrccustserv@gov.ab.ca)  
Website: [www.lrc.education.gov.ab.ca](http://www.lrc.education.gov.ab.ca)

**Price:** \$6.60 looseleaf

**Pagination:** 277 p.

**ISBN:** 978-0-7785-4299-5

**Copyright:** 2006

**Year Recommended:** 2006

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## Scholastic Atlas of Weather

**Editor:** Varilla, Mary

### Annotation

Divided into four sections, this book examines weather. The editor explains that the different climates and seasons on Earth are determined by where the planet lies and how it moves around the sun, and that weather extremes, such as hurricanes or blizzards, can disrupt daily routines, create chaos, and bring human populations to a standstill. Students will also learn that Earth's climate is influenced by land formations and water movements. The role of meteorologists is also described.

There are a number of illustrations and diagrams to support the text. The book includes a table of contents, weather facts, suggested activities, a glossary, and an index.

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

### Suggested Use

Weather

### Publisher/Distributor

Scholastic Canada Ltd.  
175 Hillmount Rd  
MARKHAM ON L6C 1Z7  
(800) 268-3860  
Fax: (800) 387-4944  
Email: [custserve@scholastic.ca](mailto:custserve@scholastic.ca)  
Website: [www.scholastic.ca](http://www.scholastic.ca)

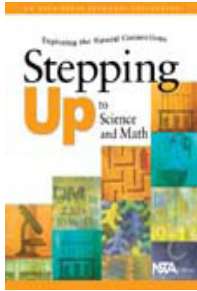
**Price:** \$26.99 hdc.

**Pagination:** 80 p.

**ISBN:** 978-0-439-41902-4

**Copyright:** 2004

**Year Recommended:** 2011



## Stepping Up to Science and Math

**Editor:** Goldston, M. Jenice

### Annotation

This NSTA resource aims to assist teachers to rethink and reflect on how they teach mathematics and science. The book is organized around three content areas:

- making connections among basic concept skills that underpin both science and mathematics
- using scientific concepts as the core for investigations to link to other subject areas
- finding contemporary applications for scientific inquiry and experimentation.

The book includes a table of contents and an index.

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

### Suggested Use

Professional Resource

### Publisher/Distributor

National Science Teachers Association

PO Box 90214

WASHINGTON DC 20090

(800) 277-5300

(301) 638-0200

Fax: (888) 433-0526

Email: [pubinfo@nsta.org](mailto:pubinfo@nsta.org)

Website: [www.nsta.org](http://www.nsta.org)

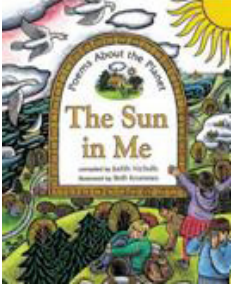
**Price:** \$21.95 U.S. pbk.

**Pagination:** 141 p.

**ISBN:** 978-0-87355-252-3

**Copyright:** 2004

**Year Recommended:** 2011



## The Sun in Me: Poems about the Planet

**Author:** Nicholls, Judith

**Illustrator:** Krommes, Beth

### Annotation

**(CAN)** In this collection of poems, readers will discover how poets celebrate the beauty and fragility of Earth. Based on culture and homeland, the poets reflect on what the planet means to them. The text includes a table of contents.

Note: This resource has also been recommended to support the arts education and English language arts curricula at the Elementary Level.

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

### Suggested Uses

Weather (Gr. 5)

Needs and Characteristics of Living Things (Gr. 1)

Air and Water in the Environment (Gr. 2)

Animal Growth and Changes (Gr. 2)

Plant Growth and Changes (Gr. 3)

Habitats and Communities (Gr. 4)

### Publisher

Barefoot Books, Incorporated

### Distributor

Fire the Imagination

21 Suffolk St W

GUELPH ON N1H 2H9

(888) 780-0864

Fax: (888) 780-0864

Email: [info@firetheimagination.ca](mailto:info@firetheimagination.ca)

Website: [www.firetheimagination.ca](http://www.firetheimagination.ca)

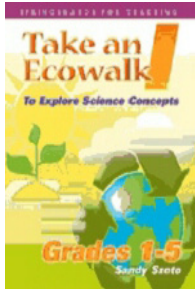
**Price:** \$18.99 hdc.

**Pagination:** 40 p.

**ISBN:** 978-1-8468-6161-1

**Copyright:** 2003

**Year Recommended:** 2011



## Take an Ecowalk 1, To Explore Science Concepts: Grades 1-5

**Author:** Szeto, Sandy

### Annotation

This resource offers background information for Elementary Level teachers, plus suggestions for pre- and post-walk classroom activities. It also provides samples of assessment tools such as rubrics. Included are a table of contents and a bibliography of print and electronic resources.

Note: The Ministry of Education has not evaluated the websites mentioned in the resource.

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

### Suggested Use

Professional Resource

### Publisher

Trifolium Books Inc.

### Distributor

Fitzhenry & Whiteside Limited  
195 Allstate Pkwy  
MARKHAM ON L3R 4T8  
(800) 387-9776  
Fax: (800) 260-9777  
Email: [bookinfo@fitzhenry.ca](mailto:bookinfo@fitzhenry.ca)  
Website: [www.fitzhenry.ca](http://www.fitzhenry.ca)

**Price:** \$21.95 pbk.

**Pagination:** 141 p.

**ISBN:** 978-1-55244-027-3

**Copyright:** 2002

**Year Recommended:** 2003

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## Things in Motion

### Annotation

In this DVD program, students will learn about force and the effects of force on objects. Through the use of examples, students will develop an understanding of force, friction, work, gravity, mass, and acceleration.

A teacher's guide is available.

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

### Suggested Use

Forces and Simple Machines

### Producer

Visual Learning Company

### Distributor

ROVER

(Recommended Online Video Education Resources)

(866) 933-8333 (for technical inquiries or support)

Email: NetworkServices@gov.sk.ca

Website: <http://rover.edonline.sk.ca/index.htm>

**Price:** \$Free (within Saskatchewan PreK-12 schools)

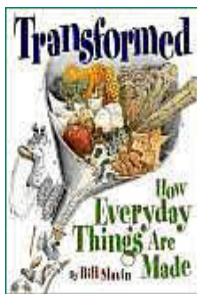
**Length:** 14 min.

**ID Number:** N828

**Copyright:** 2004

**Year Recommended:** 2011

**Expiry Date:** July 1, 2016



## Transformed: How Everyday Things Are Made

**Authors:** Slavin, Bill and Slavin, Jim

**Illustrator:** Slavin, Bill

### Annotation

**(CAN)** Slavin shows the process of how objects are changed from raw materials to the finished products. He uses common items that students are familiar with, such as baseballs. Each two-page spread describes how the object is made by breaking the process down into steps. Illustrations complement the text and show the technology behind the science. Slavin demonstrates the connection between science and technology in making objects. The book includes a table of contents, a glossary, suggestions for further research, and an index.

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

### Suggested Uses

Properties and Changes of Materials (Gr. 5)  
General Reference

### Publisher

Kids Can Press

### Distributor

University of Toronto Press  
5201 Dufferin St  
DOWNSVIEW ON M3H 5T8  
(800) 565-9523  
(416) 667-7777  
Fax: (800) 221-9985  
Email: utpbooks@utpress.utoronto.ca  
Website: www.utpublishing.com

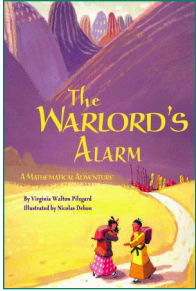
**Price:** \$16.95 pbk.

**Pagination:** 160 p.

**ISBN:** 978-1-55453-244-2

**Copyright:** 2007

**Year Recommended:** 2009



## The Warlord's Alarm

**Author:** Pilegard, Virginia Walton

**Illustrator:** Debon, Nicolas

### Annotation

Chuan and Jing Jing come up with an innovative way of measuring time to ensure that they will be able to wake their warlord before sunrise and arrive at the emperor's gates as they open in the morning.

Note: This resource has also been recommended to support the mathematics curriculum at the Grades 3 and 4 levels.

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

### Suggested Use

Forces and Simple Machines

### Publisher

Pelican Publishing Company, Inc.

### Distributor

Fitzhenry and Whiteside Ltd.

195 Allstate Pkwy

MARKHAM ON L3R 4T8

(800) 387-9776

(905) 477-9700

Fax: (800) 260-9777

Email: [bookinfo@fitzhenry.ca](mailto:bookinfo@fitzhenry.ca)

Website: [www.fitzhenry.ca](http://www.fitzhenry.ca)

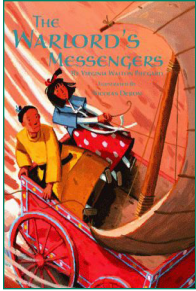
**Price:** \$20.95 hdc.

**Pagination:** 32 p.

**ISBN:** 978-1-58980-378-7

**Copyright:** 2006

**Year Recommended:** 2007



## The Warlord's Messengers

**Author:** Pilegard, Virginia Walton

**Illustrator:** Debon, Nicolas

### Annotation

The emperor has requested that the warlord attend his banquet. Chuan and Jing Jing must deliver the message quickly to the warload to ensure he attends. The banquet is in two weeks, and the trip will take the two boys 16 days by horseback. Chuan and Jing Jing devise a sailing cart to reach the warlord's camp two days before the banquet to alert the warlord.

Note: This resource has also been recommended to support the mathematics curriculum at the Grade 3 level.

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

### Suggested Use

Forces and Simple Machines

### Publisher

Pelican Publishing Company, Inc.

### Distributor

Fitzhenry and Whiteside Ltd.

195 Allstate Pkwy

MARKHAM ON L3R 4T8

(800) 387-9776

(905) 477-9700

Fax: (800) 260-9777

Email: [bookinfo@fitzhenry.ca](mailto:bookinfo@fitzhenry.ca)

Website: [www.fitzhenry.ca](http://www.fitzhenry.ca)

**Price:** \$20.95 hdc.

**Pagination:** 32 p.

**ISBN:** 978-1-58980-271-1

**Copyright:** 2005

**Year Recommended:** 2011

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## Water Cycle

### Annotation

This video program explores the water cycle and how water moves through the environment. Students will learn how the sun drives the various aspects of the water cycle. Animations illustrate the processes of evaporation, condensation, and precipitation.

A teacher's guide is available.

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

### Suggested Uses

Properties and Changes of Materials (Gr. 5)

Weather (Gr. 5)

Water Systems on Earth (Gr. 8)

### Producer

Visual Learning Company

### Distributor

ROVER

(Recommended Online Video Education Resources)

(866) 933-8333 (for technical inquiries or support)

Email: [NetworkServices@gov.sk.ca](mailto:NetworkServices@gov.sk.ca)

Website: <http://rover.edonline.sk.ca/index.htm>

**Price:** \$Free (within Saskatchewan PreK-12 schools)

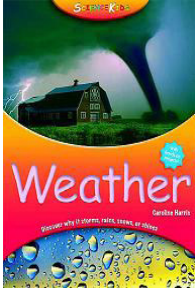
**Length:** 15 min.

**ID Number:** TBA

**Copyright:** 2008

**Year Recommended:** 2011

**Expiry Date:**



## Weather: Discover Why It Storms, Rains, Snows, or Shines

**Author:** Harris, Caroline

### Annotation

Water, air, and heat from the sun work together to make weather. Students will learn about the seasons, climate, extreme weather, and the future of weather. The book includes a table of contents, suggested activities, and an index.

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

### Suggested Uses

Weather (Gr. 5)

Daily and Seasonal Changes (Gr. 1)

Air and Water in the Environment (Gr. 2)

### Publisher

Kingfisher

### Distributor

H. B. Fenn & Company Ltd.

34 Nixon Rd

BOLTON ON L7E 1W2

(800) 267-3366

(905) 951-6600

Fax: (800) 465-3422

Email: sales@hbfenn.com

Website: www.hbfenn.com

**Price:** \$8.99 pbk.

**Pagination:** 48 p.

**ISBN:** 978-0-7534-6315-4

**Copyright:** 2009

**Year Recommended:** 2011

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## Science 5: Suggested Core and Additional Resources by Unit

In addition to the resources listed below, the Ministry of Education is planning to post support materials, including recommended websites, on *Saskatchewan Curriculum – Education: The Future within Us* at [www.edonline.sk.ca/webapps/moe-curriculum-BBLEARN/index.jsp?lang=en](http://www.edonline.sk.ca/webapps/moe-curriculum-BBLEARN/index.jsp?lang=en).

### Human Body Systems

Hands-on Science 5. WNCP ed.  
The Human Body  
Human Body Systems (ROVER)  
The Inuit Thought of It: Amazing Inventions and Innovations  
The Kids' Guide to Disease & Wellness: Why People Get Sick & How They Can Stay Well  
A Native American Thought of It: Amazing Inventions and Innovations  
Ouch!: How Your Body Makes It through a Very Bad Day  
Pearson Saskatchewan Science 5 (CORE)

### Forces and Simple Machines

The Chinese Thought of It: Amazing Inventions and Innovations  
Everyday Simple Machines (ROVER)  
Force & Motion: Stop Faking It?: Finally Understanding Science So You Can Teach It  
Hands-on Science 5. WNCP ed.  
The Inuit Thought of It: Amazing Inventions and Innovations  
A Native American Thought of It: Amazing Inventions and Innovations  
Robots: From Everyday to Out of This World  
Pearson Saskatchewan Science 5 (CORE)  
Things in Motion (ROVER)  
The Warlord's Alarm

### Properties and Changes of Materials

The Adventures of a Plastic Bottle: A Story about Recycling  
The Changing Phases of Matter (ROVER)  
The Chinese Thought of It: Amazing Inventions and Innovations  
Hands-on Science 5  
Materials: Liquids, Solids, and Gases: Their Properties and Uses  
Moko: The Young Explorer (ROVER)  
Pearson Saskatchewan Science 5 (CORE)  
Properties of Matter (ROVER)  
Transformed: How Everyday Things Are Made

### Weather

Air, Water & Weather: Stop Faking It?: Finally Understanding Science So You Can Teach It  
The Barefoot Book of Earth Tales  
Earth Matters: An Encyclopedia of Ecology  
Hands-on Science 5  
The Man Who Named the Clouds  
Moko: The Young Explorer (ROVER)  
Pearson Saskatchewan Science 5 (CORE)  
Scholastic Atlas of Weather

### Professional Resources

Air, Water & Weather: Stop Faking It?: Finally Understanding Science So You Can Teach It  
Bridging Cultures: Indigenous and Scientific Ways of Knowing Nature (CORE)  
Creating a Classroom Community of Young Scientists. 2nd ed. (CORE)  
Exploring Safely: A Guide for Elementary Teachers (CORE)  
Force & Motion: Stop Faking It?: Finally Understanding Science So You Can Teach It  
Integrating Science with Mathematics & Literacy: New Visions for Learning and Assessment. 2nd ed.  
Mixing It Up: Integrated, Interdisciplinary, Intriguing Science in the Elementary Classroom (CORE)  
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