

# Suggested Resources and Sources

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## TEACHING AIDS

**How the Mushroom Got its Spots: An Explainers Guide to Fungi** by Sue Assinder. British Mycological Society (BMS) and the Biotechnology and Biological Sciences Research Council (BBSRC). ISBN 0708406459

This guide is aimed at non-experts who want to tell children more about the fascinating world of mushrooms, toadstools, moulds and other fungi, and is useful for teachers, leaders of wildlife groups and science clubs. "How the mushroom got its spots" is available free from the British Mycological Society at [www.britmycolsoc.org.uk](http://www.britmycolsoc.org.uk) Additional BSM teaching materials can be found at [www.fungi4schools.org](http://www.fungi4schools.org)

**DSM II Fungi—Small Wonders (Grades 5-6)**. by N.H. Hudson Delta Science Module (DSM) series. Delta Education, 1994. ISBN 0875041094

Students compare various fungi with plants by extracting pigments to test for chlorophyll. They discover that fungi—with no seeds, roots, stems, leaves, or flowers—are in a class (actually, a kingdom) by themselves. They dissect mushrooms to investigate spore reproduction. Students also grow mold gardens in different cultures to test fungicides. Many activities focus on the one-celled fungi—yeast. Students observe yeast growth, budding, and fermentation (and yeast at work in pretzel dough) while controlling food and temperature variables. Based on activities and research, students debate the benefits and hazards of fungi. (12 Activities)

**The Good, the Bad and the Fungi: Introducing Fungi to Children** by Liz Holden. Field Mycology Volume 4(1), January 2003 pp 19-27 <http://www.britmycolsoc.org.uk>

If you are faced with a group of thirty 10 year olds and the task of trying to enthuse them about mycology, you might need some help. You can get it here!

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## GENERAL REFERENCE BOOKS

**Magical Mushrooms, Mischievous Molds** by George W. Hudler Princeton, N.J. : Princeton University Press, c1998. ISBN 0691028737

Hudler's light-hearted approach to the subject of the impact of fungi on the human history is refreshing and will attract students and lay people who have some interest in this area. In this lively book, George Hudler leads us on a tour of an often-overlooked group of organisms, which differ radically from both animals and plants. Along the way the author stops to ponder the marvels of nature and the impact of mere microbes on the evolution of civilization. *Magical Mushrooms, Mischievous Molds* is full of information that will satisfy history buffs, science enthusiasts, and anyone interested in nature's miracles.

**Slayers, Saviors, Servants, and Sex : an Expose of Kingdom Fungi** by David Moore. New York : Springer, c2001. ISBN 0387951016 (alk. paper) ISBN 0387950982 (softcover : alk. paper)

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In this highly entertaining book, mycologist Moore presents a fascinating and lively guide to the fungal kingdom. He explores their role in food and agriculture and their dual role as infectious agents and providers of the most potent antibiotics.

**Fungi: Delight of Curiosity** by Harold J. Brodie. Toronto ; Buffalo : University of Toronto Press, c1978.  
ISBN 0802022898  
ISBN 0802067662 (pbk.)

**Introductory Mycology** by Constantine J. Alexopoulos. John Wiley & Sons, 1996  
ISBN: 0471522295

This is a comprehensive mycology textbook that discusses the numerous activities of fungi that directly or indirectly impact other living things, including humans, in the context of their close relatives. It contains scores of illustrations, life cycle drawings, tables and new photographs.

**Fungi: Folklore, Fiction and Fact** by WPK Findlay. Richmond Publishing Company. London, 1982

Provides a historical background for those interested in mushrooms.

**Mushrooms : a Separate Kingdom** by Loni Parker. Birmingham : Oxmoor House, 1979.  
ISBN 0848705017

**Fungi** by Roy Watling. Washington, D.C. : Smithsonian Books, 2003.  
ISBN 1588340821

Richly illustrated with high quality colour photographs, this text for general readers describes a wide variety of fungi. Coverage includes such topics as the importance of fungi to the larger ecosystem, the collection and preservation of specimens, and the scourge of "dry rot" in houses.

**The Fifth Kingdom** by Bryce Kendrick. Focus Publishing. R. Pullins Company; 3rd edition, 2001  
ISBN 1585100226

This 3rd edition is a compact but comprehensive encyclopedia of all things mycological. It explores every aspect of the fungi, from aflatoxin to zoospores, with an accessible blend of verve and wit. The 24 chapters are filled with up-to-date information of classification, yeast, lichens, spore dispersal, allergies, ecology, genetics, plant pathology, predatory fungi, biological control, mutualistic symbioses with animals and plants, fungi as food, food spoilage and mycotoxins. (amazon.com)

**In the Company of Mushrooms : A Biologist's Tale** by Elio Schaechter. Harvard University Press; Reprint edition (October 30, 1998)  
ISBN: 0674445554

Call them the foot soldiers of the forest floor. Unassuming and prolific, mushrooms clear a path for new life by expertly and efficiently recycling accumulated dead matter, from the tiniest leaf to the tallest tree. It may sound like a dirty, thankless job, but as microbiologist and author Elio Schaechter enthusiastically notes, we should be singing praises to the fungi of the Earth; without them, all but the tallest of creatures would be buried under a global blanket of decomposing matter. Schaechter is obviously fascinated by his subject, and his spirit is contagious, making *In the Company of Mushrooms* as entertaining as it is informative. Though the book serves as a guide to hunting, identifying, and classifying mushrooms--its primary aim is to convey the wonders of the fungi world and its essential function in nature. Along the way Schaechter discusses the history of the mushroom and its role in the diets and healing practices of both ancient and modern cultures. He also offers such delectable tidbits as the fact that fungi are more closely related to humans than plants on the evolutionary scale. Mycology has never been so engaging. (amazon.com)

**FIELD GUIDES**

**Mushrooms of North America** by Roger Phillips  
 Boston : Little, Brown, c1991.  
 ISBN 0316706124  
 ISBN 0316706132 (pbk.)

**Mushrooms of the Boreal Forest** by Eugene F. Bossenmaier. Saskatoon : University Extension Press, University of Saskatchewan, c1997.  
 ISBN 0888803559 (pbk.)

More than 200 species from Alaska to Minnesota, with full-colour photos and descriptions, are arranged by major groups to simplify identification. Sections on biology and ecology of wild mushrooms help readers learn which mushrooms are edible and which are poisonous.

**Mushrooms Demystified : a Comprehensive Guide to the Fleshy Fungi** by David Arora.  
 Berkeley : Ten Speed Press, c1986.  
 ISBN 0898150108

Simply the best and most complete mushroom field guide and reference book, with over 950 photographs. The text is extremely extensive and inclusive. Many of the photos are in black and white.

**All That the Rain Promises, and More ... : A Hip Pocket Guide to Western Mushrooms** by David Arora. Ten Speed Press (April 1991)  
 ISBN: 0898153883

A concentrated form of *Mushrooms Demystified*. Great colour plates and fun myco-tidbits. A fantastic guide for kids to explore.

**Mushrooms of Western Canada** by Helene M. E. Schalkwijk-Barendsen. Later copies printed in 1994 have title: **Mushrooms of Northwest North America**. Edmonton, Alta. : Lone Pine Publishing, c1991.  
 ISBN 0919433472 (pbk.)  
 ISBN 1551050463 (pbk.)

**CHILDREN'S BOOKS**

**Fungi** by Jenny Tesar ; with illustrations by Wendy Smith-Griswold. Woodbridge, Conn. : Blackbirch Press, c1994.  
 ISBN 1567110444

This award-winning series emphasizes the fascinating patterns in the natural world, enabling readers to discover their own place in the network of life.

**Slime, molds, and fungi** by Elaine Pascoe ; photographs by Dwight Kuhn. Woodbridge, Conn. : Blackbirch Press, 1999.  
 ISBN 1567111823

Using hands-on natural science projects, explores and explains different types and characteristics of fungi.

**Fungi** by Charles Murray Rotter.  
 Mankato, Minn. : Creative Education, c1994.  
 ISBN 0886825938

Introduces the fungi kingdom, discussing the varieties, physical structure, and reproduction, and well as the fungi's role in the ecosystem, and human uses of fungi.

**What is a fungus?** by D.M. Souza  
 New York : Franklin Watts, c2002.  
 ISBN 0531119793 (lib. bdg.)  
 ISBN 0531162230 (pbk.)

The plant and fungus kingdoms are richly diverse and filled with fascinating organisms. This series covers both basic and little-known facts about plant and fungus biology, including reproduction, structure, and species variation. Readers learn about unusual species and their habitats, as well as threats to their existence. Also covered are the ways in which plants and fungi are important in human life--as medicines, sources of food and clothing, and items of unsurpassed beauty.  
 \*This is a quality book and highly recommended.

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**Discovering Fungi** by Jennifer Coldrey.  
New York : Bookwright Press, 1988.  
ISBN 0531181707

Introduces, in brief text and illustrations, the characteristics of fungi, where they may be found, the many varieties that exist, and their relationship to animals and human beings.

**Fungi** by Alvin, Virginia, and Robert Silverstein.  
New York : Twenty-First Century Books, 1996.  
ISBN 0805035206

Introduces fungi, discussing their varieties, physical structure, reproduction, role in the ecosystem, and uses.

\*This book is also highly recommended!

**Molds and Fungi** by Buffy Silverman.  
San Diego : Kidhaven Press, c2005.  
ISBN 0737720751

Molds and other fungi live all over the world. Despite the amazing variety of fungi, all are alike in important ways. This book describes the characteristics of the Fungi kingdom and portrays the life cycles of unusual and important fungi. The role of fungi in the food chain is explored, as is the impact of fungi on people. (amazon.com)  
\*This book has really nice photos and simple text. Its a very good introduction to the fungi.

**Mushroom** by Barrie Watts.  
Morristown, N.J. : Silver Burdett Co., 1986.  
ISBN 0382092872 (lib. bdg.)  
ISBN 0382093011

Discusses the parts of mushrooms and how these fungi grow.

\* This book has simple illustrations and good photos.

**Carnivorous Mushrooms : Lassoing Their Prey?** by Victor Gentle. Milwaukee : Gareth Stevens Pub., 1996.  
ISBN 0836816560

Introduces some varieties of fungi that eat eel worms, describing the damage these tiny worms cause to both plants and animals and the different ways that the fungi trap their prey.  
\* This is a very cool book with great scanning electron micrographs (SEMs)!

**Mushrooms of the World With Pictures to Color** by Jeannette Bowers, David Arora. Dover Publications (July 1, 1984)  
ISBN: 0486246434

92 fascinating mushroom species are revealed. Detailed captions accompany the ready-to-colour illustrations. Scientific and common names, countries of origin, and growing conditions are also included. List of Synonyms. Index. 39 black-and-white illustrations. (amazon.com)

**A Young Persons Guide to the Fungi** by Bryce Kendrick. Mycologue Pubns (June 1, 1986)  
ISBN: 0969223714

"This delightful book combines humor and mycological expertise in a presentation that should capture the imagination. It will especially appeal to pre-teens, but will educate older children and adults as well. This is perhaps the best book available to junior mycologists in North America." (North American Mycological Association Bulletin)

"This is a remarkably simple, entertaining and informative book on fungi. Twenty-six pages of beautiful, full-page, black-and-white line drawings show all different kinds of fungi at their best. Each illustration is paired with a few paragraphs describing the fungus; enter the 'Tree-Eaters' and the 'Vegetable Caterpillar' to delight the curious mind. A wonderful natural science resource." (New York State 4-H Newsletter)

**Magic School Bus Meets the Rot Squad: A Book about Decomposition** Based on the TV Show. Scholastic Us (October 1995)  
ISBN-10: 0590400231

The students in Ms. Frizzle's class embark on another journey when the Magic School Bus tours a decomposing log that introduces the latter end of the life cycle and teaches readers that there's more to rot than meets the nose.

**Fungus Fred goes Foraying** by Maggie Hadley. British Mycological Society, 2002. [www.fungi4schools.org/KS2-3\\_resources.htm](http://www.fungi4schools.org/KS2-3_resources.htm)

This book tells an engaging story about how Fungus Fred investigates the different types of fungi in nature. The book is full of fungi facts and encourages children to do what Fred has done and have fun learning. Suitable for children in the age range 7-11 years. You can read the book online or you can also order a printed copy by mail from the website.

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### FICTION BOOKS

**The Fungus That Ate My School** by Arthur Dorros ; illustrated by David Catrow. New York : Scholastic Press, 2000. ISBN 0590477048

While the students are home for spring vacation, the fungus they are growing in their classroom grows and grows and takes over the entire school.

**Mushroom in the Rain** by Mirra Ginsburg. Aladdin; Reissue edition (April 1, 1997) ISBN: 0689714416

Caught out in the rain, an ant takes shelter under a very tiny mushroom. Soon, a wet butterfly, then a drenched mouse, a dripping sparrow, and even a rain-soaked rabbit each beg to join him under his miniature umbrella. How can the ant let the others in when there is barely room enough for one? But as the rain comes down and down, they all somehow manage to squeeze together and share the tiny shelter. And when the sun finally comes out, the ant discovers a magical secret of just what happens to mushrooms in the rain! (amazon.com)

### FUN SITES FOR KIDS

#### The Fungus Among Us

<http://www.virtualmuseum.ca/~mushroom/English/index2.html>

#### Fun Facts About Fungi

[www.herb.lsa.umich.edu/kidpage/factindx.htm](http://www.herb.lsa.umich.edu/kidpage/factindx.htm)

This page at the University of Michigan introduces students to the kingdom of fungi through games, puzzles and experiments.

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### RESEARCH

#### Tom Volk's Fungi

<http://www.tomvolkfungi.net/>

#### Canada's Species: Fungi

<http://canadianbiodiversity.mcgill.ca/english/species/fungi/index.htm>

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### WHERE TO FIND POSTERS

#### EDIBLE YARD, FIELD and Cultivated MUSHROOMS

by David Arora depicts numerous edible mushrooms which are cultivated, found on stumps, in open spaces or in back yards and gardens.

**EDIBLE FOREST FLOOR MUSHROOMS** by David Arora illustrates numerous edible mushrooms which can be found in the forest floor.

<http://www.gourmetposter.com/Mushroom.htm>  
<http://www.gmushrooms.com/BOOKS.HTM>  
<http://www.fungi.com/gifts/index.html>  
[http://www.art.com/asp/display-asp/\\_id--9338/Mushroom.htm](http://www.art.com/asp/display-asp/_id--9338/Mushroom.htm)  
<http://www.edugraphics.net/gf-food/gf280.htm>