

# References and Resources

## STUDENT RESOURCES

### ***Acid Rain (Earth Watch)***

Sally Morgan. Franklin Watts, Inc., 1999.

### ***A Drop Around the World***

Barbara Shaw McKinney. Dawn Publications, 1998.

### ***The Drop in My Drink: The Story of Water on Our Planet***

Meredith Hooper. Viking Children's Books, 1998.

### ***A Drop of Water: A Book of Science and Wonder***

Walter Wick. Scholastic Trade, 1997.

### ***Glaciers***

Roy A. Gallant. Franklin Watts, Inc., 1999.

### ***The Kingfisher Young People's Book of Oceans***

David Lambert. Larousse Kingfisher Chambers, 2001.

### ***The Magic School Bus at the Waterworks***

Joanna Cole. Scholastic Trade, 1988.

### ***Our Wet World***

Sneed B. Collard III. Charlesbridge Publishing, 1998.

### ***The Water Cycle***

Trudi Strain Trueit. Franklin Watts, Inc., 2002.

### ***Water Dance***

Thomas Locker. Voyager Books, 2002.

### ***Water (True Books: Natural Resources)***

Christin Ditchfield. Children's Press, 2003.

## TEACHER RESOURCES

### ***A Drop Around the World: Teacher's Guide***

Bruce and Carol Malnor. Dawn Publications, 1998.

### ***Water Matters, Volume 1: Wetlands, Water Use, and Wastewater Treatment***

National Science Teachers Association, 1994.

### ***Water Matters, Volume 2: Navigation, Groundwater, and Water Quality***

National Science Teachers Association, 1997.

### ***Water Matters, Volume 3: Oceans, Watersheds, and Hazardous Waste***

National Science Teachers Association, 1999.

## INTERNET RESOURCES

*Preview websites ahead of time to determine whether they are appropriate for your students' needs. You may also wish to research other related websites. A good place to start is the **National Science Teachers Association** website:*  
<http://www.nsta.org/recommendedsites>.

### **Environmental Protection Agency The Water Cycle**

<http://www.epa.gov/region07/kids/wtrcycle.htm>

### **National Aeronautics and Space Administration Droplet and the Water Cycle**

<http://kids.earth.nasa.gov/droplet.html>

## **INTERNET RESOURCES (continued)**

### **U.S. Geological Survey**

#### **Follow a Drip through the Water Cycle**

<http://ga.water.usgs.gov/edu/watercycle.html>

### **Windows to the Universe**

#### **Water Cycle page**

[http://www.windows.ucar.edu/tour/link=/earth/Water/water\\_cycle.html&edu=elem](http://www.windows.ucar.edu/tour/link=/earth/Water/water_cycle.html&edu=elem)

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## STUDENT RESOURCES

### ***Forces and Motion***

Simon De Pinna. Raintree/Steck Vaughn, 1998.

### ***Forces and Movement***

Peter D. Riley. Franklin Watts, 1998.

### ***How Do You Lift a Lion?***

Robert E. Wells. Albert Whitman & Co., 1996.

### ***Learning About the Way Things Move***

Dr. Heidi Gold-Dworkin. McGraw-Hill Trade, 2000.

### ***Machines We Use***

Dr. Sally Hewitt. Children's Press, 1998.

### ***Mechanical Harry***

Bob Kerr. Gareth Stevens, 1999.

### ***The New Way Things Work***

David Macaulay. Houghton Mifflin Co., 1998.

### ***Pulleys***

Michael S. Dahl. Bridgestone Books, 1999.

### ***Pushing and Pulling***

Gary Gibson. Copper Beech Books, 1996.

### ***Simple Machines***

Allan Fowler. Children's Press, 2001.

### ***Wheels Around***

Shelley Rotner. Houghton Mifflin Co., 1995.

## TEACHER RESOURCES

### ***Ancient Machines: From Wedges to Waterwheels***

Michael Woods. Runestone Press, 1999.

### ***Janice VanCleave's Machines: Mind-boggling Experiments You Can Turn into Science Fair Projects***

Janice Pratt VanCleave. John Wiley & Sons, 1993.

### ***Science Experiments with Forces***

Sally Nankivell-Aston. Franklin Watts, 2000.

### ***The Spinning Blackboard and Other Dynamic Experiments on Force and Motion***

Paul Doherty, Don Rathjen. John Wiley & Sons, 1996.

### ***Wedges***

Anne Welsbacher. Bridgestone Books, 2001.

## INTERNET RESOURCES

*Preview websites ahead of time to determine whether they are appropriate for your students' needs. You may also wish to research other related websites. A good place to start is the **National Science Teachers Association** website: [www.nsta.org/recommendedsites](http://www.nsta.org/recommendedsites).*

### **Annenberg/CPB**

<http://www.learner.org/channel/workshops/force/workshop6/>

### **Boston Museum of Science Inventor's Toolbox**

<http://www.mos.org/sln/Leonardo/InventorsToolbox.html>

## **INTERNET RESOURCES (continued)**

### **The Franklin Institute Online**

<http://sln.fi.edu/qa97/spotlight3/spotlight3.html>

### **Kids Konnect**

<http://www.kidskonnect.com/SimpleMachines/SimpleMachinesHome.html>

### **Professor Beaker's Learning Labs**

<http://professorbeaker.com/simple.html>

# References and Resources

## STUDENT RESOURCES

### ***Awesome Experiments in Light and Sound***

Michael Anthony DiSpezio. Sterling Publications, 1999.

### ***Hearing Sounds (It's Science)***

Sally Hewitt. Children's Press, 1999.

### ***Janice VanCleave's Physics for Every Kid: 101 Easy Experiments in Motion, Heat, Light, Machines, and Sound***

Janice Pratt VanCleave. Bt Bound, 1999.

### ***Light and Sound (Fact Finders Series)***

Mike Clemmet. BBC Publications, 1999.

### ***The Magic School Bus in the Haunted Museum: A Book About Sound***

Joanna Cole. Scholastic Trade, 1995.

### ***The Science of Sound and Music***

Leslie Johnstone and Shar Levine. Sterling Publications, 2000.

### ***Sound and Hearing***

Angela Royston. Heinemann Library, 2002.

### ***Sound and Light (Young Discoverers)***

David Glover. Houghton Mifflin, 2002.

### ***Sound and Music (Science Factory)***

Jon Richards. Copper Beech Books, 1999.

### ***Sound (Everyday Science)***

Peter D. Riley. Gareth Stevens, 2002.

### ***Sound: Loud, Soft, High, and Low***

Natalie M. Rosinsky. Picture Window Books, 2003.

### ***Sounds All Around***

Wendy Pfeffer. Harpercollins Juvenile Books, 1999.

### ***Sound (Science Projects)***

Simon De Pinna. Raintree/Steck-Vaughn, 1998.

### ***What's That Sound?***

Mary Lawrence. Kane Press, 2002.

## TEACHER RESOURCES

### ***Hands-On Physical Science Activities (For Grades K–8)***

Marvin N. Tolman. Prentice Hall Trade, 1995.

### ***The Science of Sound***

Thomas D. Rossing, et al. Prentice Hall, 2001.

## INTERNET RESOURCES

Preview websites ahead of time to determine whether they are appropriate for your students' needs. You may also wish to research other related websites. A good place to start is the **National Science Teachers Association** website: <http://www.nsta.org/recommendedsites>.

### **The Dallas Symphony Orchestra's Music Room for Kids & Teachers**

<http://www.dsokids.com>

### **Science Museum of Minnesota: Science of Sound**

<http://www.sci.mus.mn.us/sound/nocss/top.html>

# References and Resources

## STUDENT RESOURCES

### ***Compost Critters***

Bianca Lavies. E.P. Dutton, 1993.

### ***Coyote and Badger: Desert Hunters of the Southwest***

Bruce Hiscock. Boyds Mills Press, 2001.

### ***Janice VanCleave's Plants: Mind-Boggling Experiments You Can Turn into Science Fair Projects***

Janice VanCleave. John Wiley & Sons, 1997.

### ***The Magic School Bus Gets Eaten: A Book About Food Chains***

Scholastic Press, 1996.

### ***Predators and Prey (Secrets of the Rainforest)***

Michael Chinery. Crabtree Publishing, 2000.

### ***Under the Ground: Hidden World***

Claude Delafosse. Cartwheel Books, 1999.

### ***Who Eats What?: Food Chains and Food Webs***

Patricia Lauber. Scott Foresman, 1995.

### ***Wonderful Worms***

Linda Glaser. Millbrook Press, 1994.

### ***Worms Eat My Garbage: How to Set Up and Maintain a Worm Composting System***

Mary Appelhof. Flowerfield Press, 1997.

## TEACHER RESOURCES

### ***Birds of Prey***

Floyd Scholz. Stackpole Books, 1993.

### ***The Food Web of a Tropical Rain Forest***

Douglas P. Reagan and Robert B. Waide. University of Chicago Press, 1996.

## INTERNET RESOURCES

Preview websites ahead of time to determine whether they are appropriate for your students' needs. You may also wish to research other related websites. A good place to start is the **National Science Teachers Association** website: [www.nsta.org/recommendedsites](http://www.nsta.org/recommendedsites).

### **The Bell Museum of Natural History**

<http://www.bellmuseum.org/ecogames.html>

### **Boston Museum of Science**

#### **The Living Sea: Predators and Prey**

<http://www.mos.org/oceans/life/webs.html>

<http://www.mos.org/oceans/life/game.html>

### **Environmental Protection Agency Kids Page**

<http://www.epa.gov/kids>

### **The Global Habitat Project**

<http://www.greenscreen.org>

### **Kids Do Ecology**

<http://www.nceas.ucsb.edu/nceas-web/kids/>

### **National Wildlife Federation Kidzone**

<http://www.nwf.org/kids>

### **U.S. Department of Agriculture for Kids**

<http://www.usda.gov/news/usdakids/>

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## STUDENT RESOURCES

### ***Food Chains (Cycles in Nature)***

Theresa Greenaway. Raintree/Steck Vaughn, 2000.

### ***From Seed to Plant (Rookie Read-About Science)***

Allan Fowler. Children's Book Press, 2001.

### ***The Magic School Bus Gets Eaten: A Book About Food Chains***

Joanna Cole. Bt Bound, 1999.

### ***Plant Life (Cycles in Nature)***

Theresa Greenaway. Raintree/Steck Vaughn, 2000.

### ***What Are Food Chains and Webs?***

Bobbie Kalman. Crabtree Publishing, 1998.

### ***Who Eats What?: Food Chains and Food Webs***

Patricia Lauber. Bt Bound, 1999.

## TEACHER RESOURCES

### ***Discovering the Naturalist Intelligence: Science in the School Yard***

Jenna Glock, et al. Zephyr Press, 1999.

### ***Hands-On Life Science Activities for Grades K–8***

Marvin N. Tolman. Jossey-Bass, 1995.

### ***Learning About Plants (Science Works for Kids)***

Jo Ellen Moore. Evan-Moor Educational Publishers, 2000.

### ***Unearthing Garden Mysteries: Experiments for Kids***

Ellen Talmage. Fulcrum, 2000.



# Science Safety

Classroom safety is always an important consideration for teachers and students. Throughout the **Broward County Hands-On Science** program, every effort has been made to choose safe materials and to suggest safe activity procedures. Special **Safety Note** boxes in the teacher's guide highlight specific safety information.

The Science Safety Rules on the following page provide general safety information for students. You may wish to photocopy the rules and distribute them to the class, or read them aloud. Discuss the rules, answer questions, and set up additional guidelines students suggest. Post a copy of the rules in the classroom. Review specific safety rules as appropriate prior to each activity.

To provide a safe environment for students engaged in science activities, consider these additional suggestions:

- At the beginning of the year, and periodically afterward, discuss safety rules, demonstrate emergency procedures, and show students how to use the safety equipment in the classroom.
- Familiarize yourself with the materials, equipment, and any potential safety concerns of each activity in advance. Discuss specific safety precautions with students before beginning the activity.
- For your students' protection, always check the school files for any student allergies, such as foods, latex, strong scents, and so on.
- Set a good example yourself by following the safety guidelines when doing demonstrations.
- Take care when arranging the classroom for science activities and storage of science supplies. Allowing students enough space and time to complete an activity is vital to student safety.
- Understand your school's policies and procedures for handling emergencies and evacuations, and know the location and use of safety equipment such as fire extinguishers.

You may wish to consult additional classroom safety resources such as *Safety in the Elementary Science Classroom* and *Exploring Safely: A Guide for Elementary Teachers*, both published by the National Science Teachers Association.

*Science Safety Rules Copymaster on following page* .....➔

# Science Safety Rules

1. Listen carefully to your teacher's instructions. Follow directions. If you don't understand, ask questions.
2. Tell your teacher if you have any allergies.
3. Never taste an unknown substance unless your teacher tells you to.
4. Never smell an unknown substance unless your teacher tells you to.
5. Avoid touching your eyes, face, mouth, ears, or nose while doing the activities.
6. Always wash your hands with soap and water immediately after every activity.
7. Always wear safety goggles when necessary.
8. Immediately report all spills and accidents to your teacher.
9. Never play with the materials provided for an activity.
10. Listen to and follow your teacher's instructions for cleaning up after an activity.