



Environmental Resource Guide:

Air Quality - Grades 3-5



IN A NUTSHELL

Written by: Air & Waste
Management Association

Air & Waste Management Assoc.
Publications Order Department
P.O. Box 1020
Sewickley, PA 15143-1020

phone: (800) 275-5851
(412) 741-1288
fax: (412) 741-0609
website: www.awma.org

Cost: \$33.50 + s&h for Air & Waste
Management Association Members
\$44.50 + s&h for non-members

SUBJECTS

Fine Arts
Health
Language Arts
Mathematics
Science
Social Studies

The lessons in this guide are designed to provide elementary school students with an introduction to air, air quality issues, and pollution control and prevention. Topics include effects of air pollution on human health, ways to detect radon and carbon monoxide, acid precipitation, smog, wind scales, global warming, and the dispersion of air pollutants.

Individual lessons last from one to four class periods and consist of several related activities; many have different versions for specific grades. Activities include scientific experiments, discussion, drama, making nontoxic cleaners, creating mobiles, puzzles, and reading. The guide lists topics, time requirements, subjects, objectives, required materials, follow-up and extension activities. Resource lists are also provided for each lesson. The curriculum contains a glossary, fifteen pages of fact sheets, masters for worksheets and handouts, and diagrams to illustrate experiments. Parallel modules are available for grades K-2 and 6-8.

Grade Level
3-5

Length
250 pages

Date Published
1996

THE **BOTTOM**
L I N E

"I liked the coverage of indoor air quality. It is in-depth and covered familiar sources that students can do something about."

What the REVIEWERS Said !	Key Characteristics	Strengths Noted	Other Considerations
	Fairness and Accuracy	Information appears to be accurate.	Weak in terms of showing consequences of poor air quality, except in regards to humans.
	Depth	Clusters activities around concepts. Addresses historical context.	Little linkage to social or economic issues.
	Emphasis on Skills Building	Uses some critical and creative thinking skills. Applies skills to specific issues.	
	Action Orientation	Identifies action steps to take at home.	
	Instructional Soundness	Connects information to learners' everyday lives. Builds upon prior knowledge. Contains some outdoor activities.	Safety instructions are not always made clear to students. Some information may be too advanced for 3rd-5th graders.
Usability	Instructions are clear and complete. Lessons are adaptable. Most equipment is inexpensive and easily obtained.		

"The connection between level of consumption and the level of air pollution was not adequately made."

"There is a wide range of lessons, from extremely simple to extremely challenging."