



4R Lending Library Curricula/Lesson Descriptions

CURRICULA/LESSONS

- **Cycles for Science: Biology**
Cycles for Science Biology is designed to assist secondary teachers in meeting state and local goals for learning in biology. The user-friendly curriculum consists of 3 lessons (each containing 2 activities) as well as ready to copy teacher and student sections. Extension and independent study opportunities are also available.
- **Cycles for Science: Chemistry**
Cycles for Science Chemistry is designed to assist secondary teachers in meeting state and local goals for learning in chemistry. The user-friendly curriculum consists of 3 lessons (each containing 2 activities) as well as ready to copy teacher and student sections. Extension and independent study opportunities are also available.
- **Cycles for Science: General/Earth Science**
Cycles for Science General/Earth Science is designed to assist secondary teachers in meeting state and local goals for learning in general/earth science. The user-friendly curriculum consists of 3 lessons (each containing 2 activities) as well as ready to copy teacher and student sections. Extension and independent study opportunities are also available.
- **Cycles for Science: Physics**
Cycles for Science Physics is designed to assist secondary teachers in meeting state and local goals for learning in physics. The user-friendly curriculum consists of 3 lessons (each containing 2 activities) as well as ready to copy teacher and student sections. Extension and independent study opportunities are also available.
- **Cycles for Science: Community Volunteer Projects**
The Cycles for Science Community Volunteer Projects guide provides suggestions for community volunteer opportunities that involve students in partnerships with service agencies, governments, recycling programs and environmental organizations. This guide provides comprehensive programs and materials that assist teachers and students in understanding their responsibility toward solid waste management and the environment. Through involvement in a community volunteer project, students learn firsthand the need to manage our resources wisely.
- **Mission Possible: Municipal Solid Waste and the 4R's (Teacher's Guide)**
The teacher's guide manual is designed for use by elementary school level classrooms focusing on the 4R's (reduce, reuse, recycle and re-buy). The manual contains a background on solid waste, issue awareness through critical analysis of solid waste and 4R issues, issue investigation guiding students through 14 activities and citizenship action by addressing responsible citizenship strategies to help resolve solid waste and 4R issues.
- **Reuse + Recycling = Waste Reduction (A Guide for Schools and Groups)**
Organized groups have a tremendous opportunity to operate waste reduction programs. These groups can often educate the whole community about the benefits of waste reduction

and encourage everyone to make waste reduction a part of their everyday life styles. Great for science classes, environmental clubs, 4-H, Boy Scouts, Girl Scouts and parent-teacher organizations.

- Michigan WISE: Waste Information Series for Education

The WISE Project is a K-12 environmental education curriculum focusing on solid waste and pollution prevention. The WISE Project's goal is to affect behavioral change in students towards pollution prevention and resource recovery.

- The Worm Café: Mid-scale Vermicomposting of Lunchroom Wastes

This manual describes how a teacher and her students developed a system to compost lunchroom waste with worms and save their school \$6000 per year. How they performed a waste audit, garnered support from school personnel. Discusses bins, bedding, maintenance, harvesting and using castings in the school garden. Contains earthworm diagrams, bulletin board materials, quizzes, parent communications, charts and dozens of resources.