

School Recycling Club SHIP

(Supporting Home Instruction Program)



Lesson Plan 8

Grade Level: 4-6

Lesson: III.B.3.—How Can We Reduce Waste? Recycling—
Where to Recycle

Source: *3 R's of the Common Core*

Craft Video: Trash Menagerie—Art from Recycled Material (<https://www.youtube.com/watch?v=RNwWN7ESnEC>)

Video Link: The Big Sort—An Insider's Tour of a Recycling Plant (<https://www.youtube.com/watch?v=nUrBBBs7yZQ>)

Game Link: Eco Academy Makes Recycling Fun (<https://www.youtube.com/watch?v=C62RK2pTrIk>)



Northeast Resource
Recovery Association

School
Recycling CLUB



Lesson Matrix Grades 4-6

3R's of the Common Core

Lesson	Leading Question	Objective	Common Core Alignments	Skills
4-6 Litter Search I.A.1	What kind of trash is found around the school?	Develop awareness of variety, sources and amount of litter Classify litter elements	Grade 4 CC.L.4.6 CC.SL.4.1 CC.4.MD.4	Communicating results Gathering information Graphing data Investigating
			Grade 6 CC.L.6.6 CC.SL.6.1 CC.6.SP.4	
4-6 Lunch Bags I.A.2	How much of your lunch do you eat and how much do you throw away?	Measure lunch waste Categorize content of lunch waste Identify ways to reduce solid waste	Grade 4 CC.SL.4.1 CC.SL.4.4 CC.4.OA.3	Analyzing Applying mathematical concepts Collaborating Collecting data
			Grade 6 CC.SL.6.2 CC.SL.6.5 CC.6.NS.3	
4-6 The Story of... I.A.3	What kind of container is best for the environment?	Understand resources that make up packaging Determine ways to reuse or recycle packaging	Grade 4 CC.SL.4.2 CC.SL.4.4 CC.W.4.8	Communicating information Designing Evaluating Gathering information
			Grade 6 CC.SL.6.2 CC.SL.6.5 CC.W.6.8	
4-6 What Kind of Waste Am I? I.B.1	Name one thing we throw away that didn't come from the earth.	Understand the characteristics of waste	Grade 4 CC.L.4.3a CC.L.4.6 CC.SL.4.1c	Designing Developing models Identifying Questioning
			Grade 6 CC.L.6.3a CC.L.6.6 CC.SL.6.1c	

Lesson	Leading Question	Objective	Common Core Alignments	Skills
4-6 The Lorax I.B.2	What are some of the consequences of our throw-away habits?	Explore the impact of humans on natural systems Draw conclusions about the environmental impact of human behaviors	Grade 4 CC.RI.4.3 CC.SL.4.2 CC.SL.4.6 CC.W.4.4	Communicating solutions Interpreting Problem solving Researching
			Grade 6 CC.RI.6.3 CC.SL.6.3 CC.SL.6.4 CC.W.6.4	
4-6 Then and Now I.C.1	How have our lifestyles changed in the past one hundred years? How have these changes affected our waste stream?	Describe ways in which changing domestic habits have intensified human impact on the environment	Grade 4 CC.SL.4.1 CC.SL.4.3 CC.W.4.4 CC.W.4.7	Interviewing Inventing Investigating Synthesizing
			Grade 5 CC.SL.5.2 CC.SL.5.3 CC.W.5.4 CC.W.5.8	
4-6 Hauling it Away II.A.1	How much does waste disposal cost?	Understand that trash must be disposed of, that disposal options are limited, that managing trash can be problematic	Grade 6 CC.SL.6.3 CC.W.6.4 CC.W.6.8	Applying mathematical concepts Communicating information Interviewing Questioning
			Grade 4 CC.SL.4.3 CC.SL.4.4 CC.W.4.2 CC.4.OA.3	
			Grade 5 CC.SL.5.3 CC.SL.5.4 CC.W.5.2 CC.5.NBT.5	
			Grade 6 CC.SL.6.3 CC.SL.6.5 CC.W.6.2 CC.6.NS.3	

Lesson Matrix Grade 4-6

3R's of the Common Core

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3R's of the Common Core

Lesson	Leading Question	Objective	Common Core Alignments	Skills
4-6 Plastic Litter II.A.2	Is plastic litter a problem?	Recognize the environmental hazards of plastic litter	Grade 4 CC.L.4.6 CC.RI.4.2 CC.SL.4.2 CC.W.4.3	Analyzing Carrying out investigations Explaining Observing
			Grade 6 CC.L.6.6 CC.RST.6-8.3 CC.RST.6-8.9 CC.W.6.3	
4-6 Landfills II.B.1	Do we take our trash to a sanitary landfill or an open dump?	Understand how sanitary landfills are made and are operated Understand the pollution problems associated with sanitary landfills	Grade 4 CC.RI.4.7 CC.SL.4.1c CC.W.4.4	Designing Gathering information Observing Questioning
			Grade 5 CC.RI.5.7 CC.SL.5.1c CC.W.5.4	
4-6 Investigating Incineration II.B.2	Is burning a good way to get rid of trash?	Consider advantages and disadvantages of incineration	Grade 4 CC.RI.4.5 CC.SL.4.1c CC.SL.4.3 CC.W.4.4	Analyzing Defining problems Evaluating Questioning
			Grade 5 CC.RI.5.5 CC.SL.5.1c CC.SL.5.3 CC.W.5.4	
4-6 Solid Waste Bulletin Board II.C.1	What can I do with this piece of solid waste?	Categorize solid waste items into reusable, recyclable, recoverable or able to be revised	Grade 4 CC.L.4.6 CC.SL.4.4 CC.W.4.4	Applying ideas to solve problems Designing Developing models Evaluating
			Grade 6 CC.L.6.6 CC.SL.6.4 CC.W.6.4	

Lesson	Leading Question	Objective	Common Core Alignments	Skills
4-6 Pondering Packaging III.A.1	What problems does packaging pose?	Examine examples of over or conglomerate packaging Assess the negative impact of overpackaging Brainstorm alternatives to overpackaging	Grade 4 CC.L.4.6 CC.RI.4.8 CC.SL.4.1c CC.W.4.4	Designing Developing models Interpreting Problem solving
			Grade 6 CC.L.6.6 CC.RI.6.8 CC.SL.6.1c CC.SL.6.6 CC.W.6.4	
4-6 Wise Use of Paper III.A.2	How much paper do you think you use? Do you need to use all of it?	Understand how much paper is wasted Know how to conserve paper	Grade 4 CC.SL.4.1 CC.W.4.4 CC.4.MD.4	Collaborating Collecting data Investigating Researching
			Grade 5 CC.SL.5.1 CC.W.5.7 CC.5.MD.2	
4-6 New Things From Old III.A.3	Why did our grandparents make patchwork quilts?	Understand that materials can be reused to make useful objects	Grade 6 CC.SL.6.1 CC.W.6.7 CC.6.SP.2	Collaborating Designing Interviewing Sharing research and writing
			Grade 4 CC.SL.4.4 CC.RI.4.7 CC.RL.4.2	
			Grade 5 CC.RI.5.7 CC.RL.5.2 CC.SL.5.5 CC.W.5.7	
			Grade 6 CC.SL.6.6 CC.RI.6.7 CC.RL.6.2 CC.W.6.7	

Lesson Matrix Grade 4-6

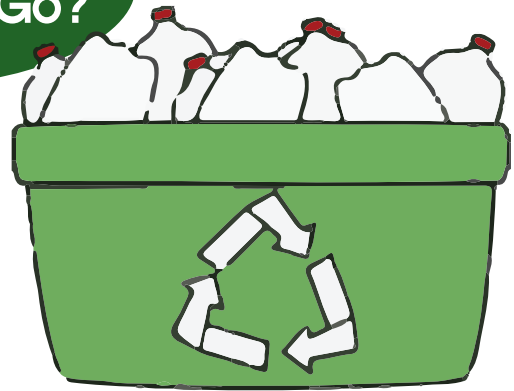
3R's of the Common Core

Lesson Matrix Grade 4-6

3R's of the Common Core

Lesson	Leading Question	Objective	Common Core Alignments	Skills
4-6 Where From, Where To? III.B.1	Where do things we use come from and where do they go to?	Trace lifecycle of objects from source, to consumer, and back again	Grade 4 CC.SL.4.1c CC.SL.4.5 CC.W.4.4	Analyzing Applying ideas to solve problems Communicating information Researching
			Grade 6 CC.SL.6.1d CC.SL.6.5 CC.W.6.4	
4-6 Papermaking III.B.2	Why should we recycle paper?	Learn how paper is recycled Make recycled paper	Grade 4 CC.L.4.6 CC.RI.4.3 CC.SL.4.2 CC.W.4.4 CC.4.MD.4	Applying mathematical concepts Collecting data Designing Researching
			Grade 5 CC.L.5.6 CC.RI.5.3 CC.SL.5.2 CC.5.MD.2 CC.5.NBT.7	
4-6 Where to Recycle III.B.3	What is recyclable and where can we take our recyclables?	Gather information about where materials can be recycled	Grade 6 CC.RI.6.4 CC.RST.6-8.3 CC.SL.6.2 CC.6.RP.3c CC.6.SP.2	Collaborating Communicating information Gathering information Sharing research and writing
			Grade 5 CC.SL.5.1 CC.W.5.1b CC.W.5.6	
4-6 Mini-Compost III.C.1	What do you do with your food scraps?	Learn about recycling organic matter	Grade 4 CC.RI.4.1 CC.W.4.4 CC.4.NBT.3	Graphing data Investigating Observing Predicting
			Grade 6 CC.RI.6.2 CC.W.6.4 CC.6.SP.2	

Where Do Recyclables Go?



Concepts

Recyclables should be source separated; publicity for recycling centers is necessary for their success.

Objective

Students will gather information about where materials can be recycled.

Method

Teachers will invite guest speakers to present information on recycling centers.

Materials

Maps, recycling locations, mapmaking materials

Subjects

Science, Social Studies, Language Arts

Skills

Collaborating, communicating information, gathering information, sharing research and writing

Time

Several class periods.

Vocabulary

Solid waste district, collection points, recycling center, source separation

Resources

State agencies; town clerk; solid waste management and planning commissions

3R's of the Common Core

Parallel Activities

K-3, What's Recyclable

7-8, Destination Recycle

9-12, Collecting and Sorting

Information

Recycling.

Resources

Solid Waste and Recycling

Waste Management Agencies by State

Background

Successful recycling depends in part on public education, publicity and convenience. Most people agree that recycling benefits the environment and helps reduce disposal problems. They would like to recycle, but don't because they either do not know how to recycle, where to recycle, or available recycling centers are too far away or collection days too infrequent. Therefore, public education and convenience are vital parts of any successful recycling program.

Leading Question

What is recyclable and where can we take our recyclables?

Procedure

1. List recyclables on the board. Include the following; three colors glass, plastic beverage bottles (PET), plastic detergent and milk jugs (HDPE), newspaper, ledger paper, mixed paper, mixed plastic, corrugated cardboard, aluminum (cans, pie plates, foil), steel cans, other metals, batteries and oil. Discuss methods of preparation for various materials. Review what happens to the items when they are recycled. Show YouTube videos of recycling facilities going through the recycling process. Do you and the students know where these items can be recycled locally? If not locally, where in your state? Go to <http://search.earth911.com/> to find out.
2. Have the town recycling committee or a regional solid waste commission member visit your classroom to talk about local recycling efforts.

Evaluation

Students should know where to recycle various materials and will begin to understand the complexities of setting up and maintaining successful recycling programs.

Common Core Alignments

GRADE 4

CC.SL.4.1

Speaking & Listening:
Comprehension & Collaboration

CC.W.4.1b

Writing:
Text Types & Purposes

CC.W.4.6

Writing:
Production & Distribution of Writing

GRADE 5

CC.SL.5.1

Speaking & Listening:
Comprehension & Collaboration

CC.W.5.1b

Writing:
Text Types & Purposes

CC.W.5.6

Writing:
Production & Distribution of Writing

GRADE 6

CC.SL.6.1

Speaking & Listening:
Comprehension & Collaboration

CC.W.6.1b

Writing:
Text Types & Purposes

CC.W.6.6

Writing:
Production & Distribution of Writing

Classroom Activities

- A. Make maps of recycling centers in your area. Display maps at home or distribute maps to local bulletin boards, businesses, etc. to stimulate recycling activity in the community.
- B. Make a map of the towns in your solid waste district, showing collection points for solid waste and recyclables.
- C. Use technology to create an informational flyer for giving away at area businesses, such as banks and supermarkets.
- D. Write letters to the editor of your local newspaper about what students have learned and why recycling is so important in the world today.