

TEACHER GUIDE

Trash Talk!

TO: Teachers

FROM: Northeast Indiana Solid Waste District
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In this edition of *Trash Talk!*, we highlight waste reduction and reuse. With the holidays around the corner, these are timely topics for your students! Waste reduction and reuse include selecting secondhand or reusable products.

Inside this Teacher Guide, we have provided ideas to “reuse” the newsletter for daily instruction, journal writing prompts, and two extension activities.

On the back page, we provide information about this issue’s activities so that you can incorporate *Trash Talk!* into your daily curriculum. We’ve noted how these activities correlate to the Indiana Academic Standards for fourth grade.

As always, we welcome your comments and suggestions.

Teacher Keys for Trash Talk! Activities

Mixed Up Modifiers

1. secondhand — adjective
2. sporting — adjective
3. quickly — adverb
4. purple — adjective
5. before — adverb
6. After — adverb

Add It to Win It

Sofia: \$13.00

Aiden: \$15.75

Noah: \$14.50

Winner — Jordan: \$15.10

Layla: \$15.45

Bonus: secondhand store

Clues You Can Use

- C:** 1. 80, 81, 82, 83, 84; 2. Answers will vary;
3. **82 pounds**; 4. Clue C

P: 1. Answers will vary; 2. **15%**; 3. Yes

Bonus: $82 \times 15\% = 12.3$ pounds reused/recycled;
 $82 - 12.3 = 69.7$ pounds thrown into trash

What Would You Do?

1. A — Good; C — Better
2. B — Better; C — Good
3. A — Good; B — Better

Cycling Around

1. Select a real holiday tree.
2. Decorate the tree and enjoy the holidays.
3. Remove the decorations from the tree and put them away.
4. Take the tree to a drop-off site.
5. The tree is chipped and turned into mulch.
6. Mulch is spread around young trees to protect their roots.

Reuse Ideas

Math

- Sofia's grandparents live 823 miles away. If Sofia's family drives to her grandparents house and back home over the holidays, how many miles will they travel?
- List the factors of 82.
- $15.75 - 14.50 = \underline{\hspace{2cm}}$
- Noah has \$66.00 to spend on presents for his parents. He selects a \$39.99 watch for his dad and a \$24.69 book for his mom. Does Noah have enough money to buy both gifts?

English/Language Arts

- Reread sentence #6 in "Mixed Up Modifiers." What part of speech is the word "three"?
- Correctly punctuate this sentence:
Owen said Nic this is my old iPod I want you to have it
- Write these words in ABC (alphabetical) order:
sporting secondhand Sofia shirt shorts sweater
- Which of these words is *not* a synonym of *repair*?
mend fix rend restore

Science

- Select the term that doesn't belong:
fabric glass clothing textile
- Write down two ways that trees help people.
- A forester wants to measure the circumference of a tree. Which tool would be the most useful?
compass tape measure magnifying glass yard stick

Social Studies

- List five goods and five services which cost money that your family consumes.
- List five services that your family produces. (Hint: These might include chores that you do, like washing the dishes.)
- Does your family produce any goods? If so, what? Who uses them?

Journal Writing Prompts

Describe how your life would be different without your favorite electronic gadget (iPod/MP3 player; phone, video game; e-reader; tablet; etc.).

Complete this sentence:
My favorite holiday tradition is ...

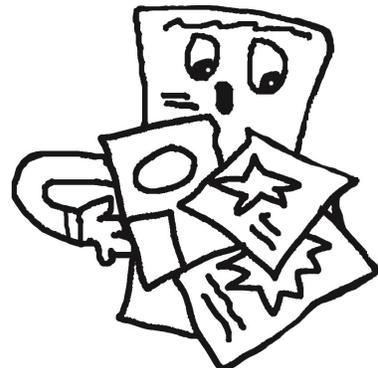
What chores (or jobs) are you expected to do at home? What is your favorite chore? What is your least favorite chore? Do you wish you had more chores or fewer? Why?

Using the letters in "rechargeable" make as many words as you can. You can use the letters more than once.

What would you do if a friend borrowed something from you and didn't return it? How would you feel?

Extension Activity: Junk Mail Map

Gather junk mail. Sort the mail and remove any pieces with inappropriate content or confidential information (account numbers, etc.). Place your students in groups and provide each group with about 10 pieces of junk mail and a map of the United States (available at www.eduplace.com/ss/maps/pdf/uspostal.pdf). Ask the students to find the return address on each piece of junk mail. Then ask them to map the junk mail, placing a dot on the map to show the origin of each piece of junk mail. Display the maps from each group. Do your students notice any trends? Did more junk mail come from your home state or from out of state?



Code Mode



Name: _____

Instructions: These sayings were written using a substitution code. For the letters A through Q, each letter is written as the letter that comes three after it. (Example: A is written as D.) For the letters R through Z, each letter is written as a number 1 through 9. (Examples: R is written as 1 and Z is written as 9.) Decode the sayings.

1. D 23L3FK LQ 3LPH 2D5H2 QLQH

2. 6D23H QR3 6DQ3 QR3

3. HQR4JK L2 D2 JRRG D2 D IHD23

4. NHHS 2RPH3KLQJ IR1 D 1DLQ8 GD8

5. PDQ8 KDQG2 PDNH OLJK3 6R1N

Use the same code to write the following:

Your last name: _____

The city where you were born: _____

Your birthday month: _____

Your favorite food: _____

Your pick: _____

Skills and Standards

Activity	Subject Areas	Skills Addressed
Mixed Up Modifiers	<i>English/ Language Arts</i>	Using knowledge of letters, sounds, syllables, and word formation to decode words and accurately complete a text; Using context to confirm and self-correct; Using content-specific words and phrases; Explaining the function of adjectives and adverbs in sentences <i>Grade 4:</i> 4.RF.1; 4.RV.1; 4.RV.2.1; 4.RV.3.2; 4.W.6.1c
Clues You Can Use	<i>Math</i>	Computing with whole numbers; Comparing numbers; Identifying factors of numbers; Understanding odd and even numbers; Solving for unknown values; Replacing letters with their values; Reviewing place value understanding; Using logical reasoning; Testing possible solutions <i>Grade 4:</i> 4.NS.2; 4.C.4; 4.AT.1; 4.AT.3; 4.AT.4
Cycling Around	<i>Science</i>	Describing how natural materials meet the needs of plants and animals; Understanding the movement of matter among plants, animals, decomposers, and the environment; Developing solutions to reduce the impact of humans on the natural environment and the natural environment on humans; Exploring ways that communities protect Earth's resources and the environment <i>Grade 4:</i> 4.ESS.4; 4.LS.2; 4.LS.3
What Would You Do?	<i>Social Studies</i>	Providing examples of civic virtues in a democracy; Explaining the importance of being a responsible citizen <i>Grade 4:</i> 4.2.6; 4.2.7
Add It to Win It	<i>Math</i>	Writing tenths and hundredths in decimal notations; Comparing decimals; Using mathematical operations to solve real-world problems involving money <i>Grade 4:</i> 4.NS.6; 4.M.3
Outside Pages Text	<i>English/ Language Arts</i>	Reading and comprehending nonfiction, informational text; Applying context clues to determine meaning of unknown words; Determining meaning of content-specific words and phrases in nonfiction text <i>Grade 4:</i> 4.RN.1; 4.RN.2.1; 4.RN.2.2; 4.RN.3.1; 4.RN.4.1; 4.RV.2.1; 4.RV.3.2

CODE MODE ANSWERS

1. A stitch in time saves nine.
2. Waste not, want not.
3. Enough is as good as a feast.
4. Keep something for a rainy day.
5. Many hands make light work.

