

## TEACHER GUIDE

# Trash Talk!

TO: Teachers

FROM: Southeastern Indiana Recycling District  
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In this edition of *Trash Talk!*, we look forward to the celebration of the 50th anniversary of Earth Day this April.

For your convenience, we have provided Teacher Keys below for the *Trash Talk!* activities. Inside this Teacher Guide, we have offer ideas to “reuse” the newsletter for daily instruction, as well as journal writing prompts and an extension activity. On the back page, we have included information about this issue’s activities so that you can incorporate *Trash Talk!* into your classroom curriculum. We’ve noted how these activities correlate to Indiana Academic Standards for third and fourth grades.

As always, we welcome your comments and suggestions.

### Teacher Keys for Trash Talk! Activities

#### What’s Wrong?

Wrong answers are: 1, 3, 5, 9, 10

Correct answers are: 1. **petroleum**; 2. cotton plant;  
3. **iron ore**; 4. bauxite ore; 5. **copper**; 6. gold;  
7. chromium; 8. diamonds; 9. **trees**; 10. **sand (silica)**

**Bonus:** 1. *Top bauxite ore mining countries:* Australia, China, Brazil, India, Guinea; 2. *Products made from plastic:* Answers will vary, but may include: toys, sports equipment, bottles, game controllers, lawn furniture, light switches, computer keyboards, toothbrushes, eye glasses, trash and recycling carts, bread bags, etc.

#### Dare to Compare

L

1. 26, 27, 28, 29, 30, 31, 32, 33, 34; 2. 27, 29, 31, 33;  
3. 27; 4. Answers will vary, but you could skip C.

T

1. A (Answers may vary.); 2. C (Answers may vary.);  
3. 39; 4. No — You can find the answer without using Clue D. (Answers may vary.)

#### Where in the World?

China

#### Something’s Missing

Each Earth Day, my family chooses one new thing we’ll do to help the environment. Last year, we collected all of our unused lawn chemicals and took them to the household hazardous waste drop-off event. What should we do this year?

#### A Slice of Recycling

1. paper and cardboard; 2. food scraps; 3. glass containers and plastics AND/OR metals and other; 4. 23.4%; 5. 90; 6. plastics; 7. 57

**Bonus:** 1. 49,700 tons of paper and cardboard; 2. 23.4 tons of yard waste

#### Supplying the Demand

The price of cans will **increase**.

# Reuse Ideas

## Math

- Write  $<$ ,  $>$ , or  $=$  to make these statements true:  
 $7 \times 5 \underline{\quad} 38$      $39 \div 13 \underline{\quad} 2.5$
- List the factors of 36.
- Open *Trash Talk!* so that it is a large rectangle. Measure the sides. Find the area in centimeters and inches.
- Write these numbers as words:  
2    23    35    49    50    80

## Language Arts

- Circle one word with the suffix *-est*, two words with the prefix *re-*, and three words with four syllables.
- Use these words in a sentence: clue and diamonds
- Find a word that is a synonym of “class” or “group” and begins with C.
- Write these words in ABC (alphabetical) order:  
copper    chromium    cotton    cars    clue

## Science

- Circle the item that doesn’t belong in this group:  
iron    petroleum    tree    gold
- Which of these resources typically comes from a mine?  
cotton    bauxite ore    petroleum
- Why are diamonds used in cutting tools?
- What does “LED” stand for when describing light bulbs? In addition to using less energy than incandescent (traditional) light bulbs, what is another advantage of LED bulbs?

## Social Studies

- Circle the item that does not belong in this group:  
Mongolia    Afghanistan    London    China
- Who was the President of the United States in 1970?
- Which ocean is home to the Bay of Bengal?

## Journal Writing Prompts

The Earth is referred to as “The Blue Planet.” Explain why you think it got this name.

Imagine that you and a team of student volunteers are picking up trash by the side of the road. What kind of trash do you see? How does it make you feel to see and pick up the garbage that other people could have recycled or thrown away properly?



Do you think recycling is an important way to help the planet? Why or why not? What are some of the things you and your family recycle?

Create a story that includes a conversation between two very old, tall trees as they watch pollution float by. What do you think they would like people to do to make the air cleaner for plants, animals, and humans?

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## Planet Poetry

Make copies of the blackline master on the next page. Have students work on their own or in groups to create an acrostic poem using the letters in “Earth Day” to begin each line.

After everyone is finished, work together as a class to fill in the blanks with words that will create environmentally friendly resolutions.

# Planet Poetry



**Instructions:** Write an acrostic poem about Earth Day. Using a piece of scratch paper, write down all of the things you can think of about Earth Day and taking care of our planet. Now start writing your poem. Begin each line with the letter shown and then write a word, phrase, or sentence.

E
A
R
T
H

D
A
Y

# Skills and Standards

Activity	Subject Areas	Skills Addressed
<b>Something's Missing</b>	<i>English/ Language Arts</i>	Decoding and reading words by applying phonics and word analysis skills; Applying foundational reading skills to demonstrate reading fluency and comprehension; Applying context clues to determine the meanings of unknown words; Exploring ideas under discussion by drawing on readings and other information  Grade 3: 3.RF.4; 3.RF.1; 3.RV.2.1; 3.SL.2.2 Grade 4: 4.RF.4; 4.RF.1; 4.RV.2.1; 4.SL.2.2
<b>Dare to Compare</b>	<i>Math</i>	Multiplying or dividing to solve word problems involving multiplicative comparison; Making sense of problems and seeking entry points to a solution; Modeling with mathematics; Analyzing patterns and relationships; Reasoning abstractly and quantitatively  Process Standards (all grades): PS.1; PS.2; PS.4; PS.5; PS.6 Grade 3: 3.NS.2; 3.C.1; 3.C.5; 3.AT.1; 3.AT.2; 3.AT.3; 3.DA.1 Grade 4: 4.NS.2; 4.C.2; 4.C.3; 4.C.4; 4.AT.4; 4.DA.1
<b>What's Wrong?</b>	<i>Science</i>	Describing methods humans currently use to extend the use of natural resources; Observing the characteristics of rocks and minerals; Understanding how natural materials meet the needs of humans  Grade 3: 3.ESS.2; 3.ESS.3 Grade 4: 4.ESS.4
<b>Where in the World?</b>	<i>Social Studies</i>	Using cardinal directions to locate places on maps and globes; Examining ways people have tried to solve environmental problems; Identifying how human systems and physical systems have impacted the local environment  Grade 3: 3.3.1; 3.3.4; 3.3.12; 3.3.13 Grade 4: 4.3
<b>A Slice of Recycling</b>	<i>Math</i>	Using scaled picture graphs to understand data; Multiplying or dividing to solve word problems involving multiplicative comparison; Reasoning abstractly and quantitatively.  Process Standards (all grades): PS.1; PS.2; PS.4; PS.5; PS.6 Grade 3: 3.DA.1; 3.NS.1; 3.C.4; 3.C.5; 3.AT.1 Grade 4: 4.DA.3; 4.NS.1; 4.C.1; 4.C.4; 4.AT.1
<b>Supplying the Demand</b>	<i>Social Studies</i>	Explaining that prices change as a result of changes in supply and demand for specific products  Grade 3: 3.4.1 Grade 4: 4.4.4
<b>Outside Pages Text</b>	<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; Developing media literacy  Grade 3 & 4: RN.1; RN.2.1; RN.2.2; RN.3.1; RN.4.1; RV.2.1; RV.3.2; 4.ML.1