

TEACHER GUIDE

Trash Talk!

TO: Teachers

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Summer is a great time for kids to do more for the environment, such as identifying hazardous chemicals found in the home, helping their families properly dispose of problem wastes, hosting a garage sale, picking up litter, and more.

Inside this Teacher Guide, we have provided ideas to “reuse” the newsletter for daily instruction, journal writing prompts for students, and an extension activity. For your convenience, you will find Teacher Keys as well.

Below, refer to this issue’s activities and the corresponding subject areas and skills addressed. We provide this information so that you can incorporate *Trash Talk!* into your daily curriculum.

Activity	Subject Areas	Skills Addressed
“Good Work”	<i>Social Studies</i>	Understanding job titles based on a description of the work performed
	<i>Language Arts</i>	Decoding scrambled words based on context clues
“Handle With Care”	<i>Science</i>	Understanding how humans cause changes in the environment that can be beneficial <i>or</i> detrimental to themselves and others
	<i>Health & Safety</i>	Recognizing and avoiding threatening situations
“Probing Problems”	<i>Math</i>	Solving problems by adding, subtracting, multiplying, and dividing
“On Average”	<i>Math</i>	Organizing simple data set to answer a question; Calculating average with whole and decimal numbers
“As Simple as a Simile”	<i>Language Arts</i>	Constructing similes; Writing using figurative language and varied word choices
“Logically Speaking”	<i>Math</i>	Employing critical thinking skills to analyze a problem by identifying relationships and then sequencing and prioritizing information

Please continue to send us your suggestions. We love hearing your great ideas for future issues.

Reuse Ideas

Math

- Sum the solutions for each of the five number sentence sets in "Probing Problems." (For instance, $775 + 679 + 1,034 + 7,238 + 84 = ??$)
- Write the correct symbols (+, -, x, ÷) to make these statements true:
 $4 _ 4 _ 4 _ 4 = 15$ $4 _ 4 _ 4 _ 4 = 60$
(Answers: $4 \times 4 - 4 \div 4 = 15$; $4 \times 4 \times 4 - 4 = 60$)

Language Arts

- Correct the following sentence:
Michael share a rume with his brodder.
- Circle four action verbs, three plural nouns, two coordinating conjunctions, and one possessive.
- Write these words in **ABC** (alphabetical) order:
sitting soccer shares spray soda

Analogies

- Mom : Grandma :: _____ : Grandpa
- paint : can :: _____ : bottle

Social Studies/Geography

- Look at the jobs listed in "Good Work." Identify a possible job that might use each of the following items: heavy equipment; shovel; power tools; conveyor belt; paper; lab equipment; and computer. (There is more than one possible answer for each item.)

Risky Rebuses

Copy the blackline master, making a copy for each student. Students may complete the rebuses on their own or in pairs.

After your students have completed this activity, discuss household hazardous waste (often called HHW) as a class. HHW includes oil-based paint and related products, motor oil and oil filters, antifreeze and other automotive fluids, cleaners and solvents, weed and bug killers, fertilizers, hobby chemicals and glues, pool chemicals, fluorescent light tubes and bulbs, mercury and mercury-containing items, and batteries. Talk about why these items require special handling and disposal. If you and your class have questions about how to properly dispose of these items, please contact us!

Answers: 1. palm + ink + tie - milk - E = paint; 2. horse + tail - hearts = oil; 3. week + dog + kilt + flower - fog - two - K = weed killer

Journal Writing Prompts

- Write five questions that begin "May I...?"
- Write a paragraph about spring using descriptions that involve all five senses.
- Think about how your favorite fiction book ends. Write an "epilogue" that imagines what happens to the characters in the future.
- Ralph Waldo Emerson said, "Every artist was first an amateur." What do you think he meant by this? Does it remind you of another saying you've heard before (maybe from a parent or coach or music teacher)?



Teacher Keys



On Average

7.5 containers

Logically Speaking

The tire area

As Simple as a Simile

Answers will vary.

Good Work

1. Naturalist
2. Solid Waste Engineer
3. Forester
4. Solar Contractor
5. Journalist
6. Recycling Technician
7. Landfill Operator
8. Composter
9. Research Scientist
10. Director

Handle With Care

- H The Crispins leave ...
H Grandpa Rivers left ...
S Michael shares ...
H The girls played ...
H Ryan's family had ...
S Mrs. Jones opened ...
S After Jimarcus ...

Probing Problems

1. What percentage of Americans have cell phones?

$$375 + 400 = 775$$

$$775 - 96 = 679$$

$$355 + 679 = 1,034$$

$$1,034 \times 7 = 7,238$$

$$7,322 - 7,238 = 84$$

Answer: 84% of Americans have cell phones.

2. On average, how often do Americans replace their cell phones?

$$135 - 90 = 45$$

$$45 \div 3 = 15$$

$$15 - 9 = 6$$

$$6 \times 6 = 36$$

$$36 \div 2 = 18$$

Answer: On average, Americans replace their phones every 18 months.

3. In June of 2008, how many text messages were sent?

$$878 + 172 = 1,050$$

$$1,050 - 550 = 500$$

$$500 \times 1,000 = 500,000$$

$$20 \times 500,000 = 10,000,000$$

$$7,500 \times 10,000,000 = 75,000,000,000$$

Answer: During June 2008, 75,000,000,000 (75 billion) text messages were sent.

4. During what year did wireless subscriptions in America top 100 million?

$$8 \times 9 = 72$$

$$72 \div 12 = 6$$

$$199 \times 6 = 1,194$$

$$2,836 - 1,194 = 1,642$$

$$1,642 + 358 = 2000$$

Answer: In 2000, cell phone subscriptions topped 100 million in the U.S.

5. Recycling 100 million cell phones would save enough energy to provide the electricity to how many American homes for one year?

$$109 + 59 = 168$$

$$596 - 168 = 428$$

$$2 \times 428 = 856$$

$$9,245 - 856 = 8,389$$

$$8,389 + 11,111 = 19,500$$

Answer: Recycling 100 million cell phones would save enough electricity to power 19,500 homes each year.

