TEACHER GUIDE

Trash Talk!

TO: Teachers

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It's almost Earth Day! Because recycling saves energy and keeps valuable natural resources out of disposal facilities, we've chosen it as the theme for our Earth Day issue of *Trash Talk!* When materials that otherwise would have been disposed are collected, remanufactured, and used as new products, we are recycling. In this issue, our articles and activities reinforce this message--and make students think about the whole planet.

This Teacher Guide supplements *Trash Talk!* by giving extension activities, as well as by listing specific activities, subject areas covered, and skills addressed. Journal and reuse ideas can be quickly implemented as daily work supplements to the proficiencies that you teach every day. You'll also find teacher keys for the *Trash Talk!* activities.

Activity	**Subject Areas**	**Skills Addressed**
And Your Point Is?	*Language Arts*	Using textual clues to determine the author's main purpose
Your Choice	*Math*	Selecting correct number sentences based on word problems Solving real-world problems involving fractions and times (hours and minutes)
Which Word Is Which?	*Science*	Choosing correct vocabulary to complete explanatory statements and instructions regarding trash and recycling
	Math	Computing the sum of a series of numbers
	Language Arts	Applying knowledge of homonyms and using context clues to choose correct words to complete sentences
Shape Up	*Language Arts*	Writing a poem that expresses an idea and/or emotion
	Art	Using art to enhance communication of an idea and/or emotion
Measure at Your Pleasure	*Math*	Using scaled units to make accurate measurements Calculating and comparing perimeters and areas
	Social Studies	Interpreting a map using a map grid

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

Reuse Ideas

Math

- Solve each number sentence in "Your Choice."
- How many minutes are in 3/5 of an hour? How many minutes are in 1/4 of an hour? How many minutes are in 1/3 of an hour?
- In "Measure at Your Pleasure," is the area for the Conveyor **<**, **>**, or **=** to the area for Cardboard?

Language Arts

- Correct the following sentence: does you recycle at you're school!
- Using the letters in the word "difference," create as many words as you can think of. ("red," "ride," "fed," etc.)
- Write five words that rhyme with each of these words:
  tree litter Earth
  (Make sure you choose real words by checking in the dictionary!)
- Write these words in **ABC** (alphabetical) order:
  Logan lawn litter lights line

Analogies

- recycle : recycling :: _____ : wasting
- worse : better :: _____ : help

Social Studies/Geography

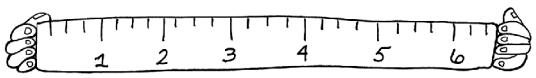
- In "Measure at Your Pleasure," how many feet wide is the Recycling Center? How many feet long?
- In "Shape Up," label the continents that you see. At the right, list the remaining continents that aren't shown.

Journal Writing Prompts

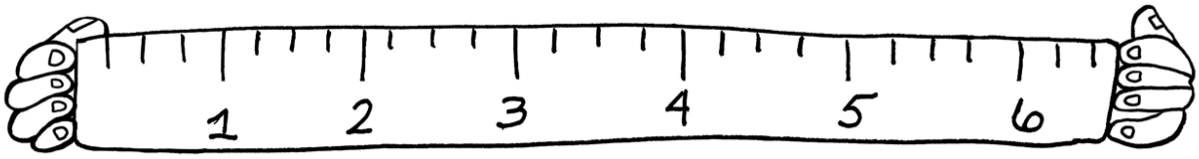
- Explain "Earth Day" to a visitor from another planet.
- Write three "Earth Day Resolutions." Be sure these are things that you can do.
- List all of the items that your family recycles at home. Does your family recycle everything that is accepted locally? If not, what else could you recycle? If so, could you recycle more? How?

Measuring Up

Copy the blackline master on the next page for each student. (Remember to copy them onto the back of reused paper, if possible.) If you're doing this project at school, ask your students to map the classroom. They will need to measure the room and large objects within it. Then they will need to plot these onto the map space provided, label all of the objects, title the map, and provide the scale. To help them plot the room, suggest that they created a scaled grid in pencil before they begin.



If you prefer, you could assign your students to complete this project at home, where they could measure and plot their bedrooms or another room in their home.



Measuring Up

Instructions: Measure the room and all of the larger objects within it. Now map the room below. Make sure that you draw things to scale. (Hint: Before you start to draw, create a scaled grid the size of the room in pencil.) Title your map, label all of the objects, and provide the scale.

_____

(Title)

SCALE: _____ = _____

NAME: _____

Teacher Keys

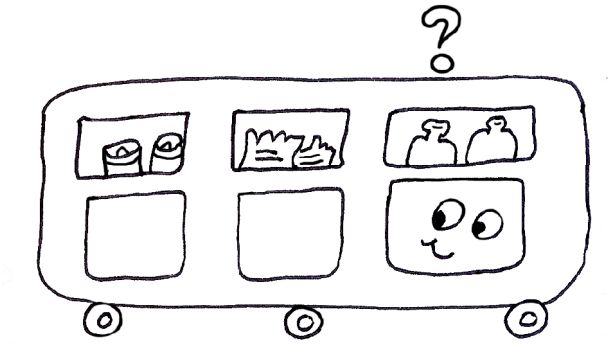
Your Choice

3/5 - 2/5 = **1/5 of an hour**
60 x 2/5 = **24 minutes**

And Your Point Is?

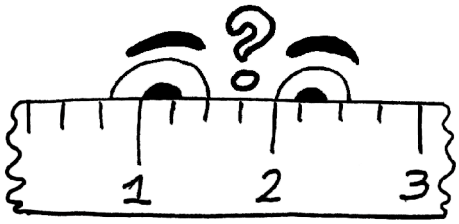
Persuade

Which word is which?



Trash is also called solid **waste**. 10
Recycling is not **new**. 3
It's easy to recycle. 9
Do you recycle at **your** house? 11
Prepare your recyclables this **way**. 4
Put only recyclables into this **bin**. 8
Place your recyclables **here**. 6

10 + 3 + 9 + 11 + 4 + 8 + 6 = 51



Americans recycle about **51** billion aluminum cans each year.

Measure at your pleasure

1. The total area of the Recycling Center is **180** square feet.
2. The area for Plastic is **9** square feet.
3. The perimeter of the Conveyor is **20** feet.
4. The perimeter of the Cardboard section is 14 feet.
5. **Newspaper** has an area of 8 square feet.
6. **Aluminum Cans** and **Steel Cans** have the same area.
7. The Conveyor area is 7 square feet larger than the **Plastic** area.
8. **Glass** has an area of 10 square feet.