

TEACHER GUIDE

Trash Talk!

TO: Teachers

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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 an extension activity.

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 North Carolina’s Standard Course of Study for third through fifth grades. For your convenience, we have provided Teacher Keys below for the activities.

As always, we welcome your comments and suggestions. We hope you have a great school year!

Teacher Keys for Trash Talk! Activities

Fraction Action: Ava gave away 2 shirts; Abigail gave away 4 shirts; Trinity gave away 3 shirts.

Scrambled Science: *Terms:* e-waste, computers, recycle, rechargeable, streaming, repurposed —
1. E-waste; 2. repurposed; 3. Streaming;
4. recycle; 5. rechargeable; 6. Computers

Where in the World?: Philippines

Beginnings & Endings: *Terms:* rechargeable, helpful, embrace, reusable, decrease —
1. Embrace; 2. rechargeable; 3. decrease;
4. reusable; 5. helpful



Reuse Ideas

Math

- What is the common denominator of $1/3$ and $1/2$?
- Solve these problems: $1/3 + 1/2 = \underline{\quad}$ $1/2 - 1/3 = \underline{\quad}$
- In "Fraction Action," how many total shirts did the girls give away? If the girls gave away the same number of shirts each year for four years, how many shirts would they give away?
- The average American throws away 70 pounds of clothing, shoes, bedding, towels, etc. each year. Only about 15% of that goes to reuse and recycling facilities. For the average person, how many pounds are reused and how many pounds go to landfills?

English/Language Arts

- Add the suffix "er" to "help" and use the new word in a sentence.
- Change the prefix on "decrease" to create a word that has the opposite meaning (an antonym).
- Choose the adjective and use it in a sentence:
recharge recharged rechargeable
- Write these words in ABC (alphabetical) order:
decorations disposable decrease decided drop
- In "Beginnings & Endings," find a word that starts with C and is a synonym of *make* or *produce*.

Science

- Select the term that doesn't belong:
computer smartphone battery television
- How could the birdfeeder in "For the Birds" be modified to keep squirrels from getting to the bird seed?
- A battery is an engineering solution. What problems did it solve?
- List five ways to save energy in your daily life.
- Complete this analogy: rechargeable : battery :: _____ : bottle

Social Studies

- On the map in "Where in the World?" add a compass rose indicating the cardinal directions (north, south, east, and west).
- What direction is Japan from the Philippines?
- What continent is home to China and Russia?
- Label five unidentified countries in the southern hemisphere.



Journal Writing Prompts

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

■
What is your favorite activity over winter break? Why?

■
Create a story about a funny dream using these words: *bird seed*, *oak tree*, and *winter*.

■
List five things in your room that you no longer use. Why don't you use them? Are they clothes you have outgrown? Toys for a smaller child? Things you forgot you had? Do you still need them? Could someone else use them?



Extension Activity: Roundabouts

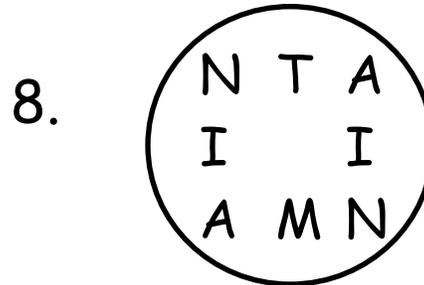
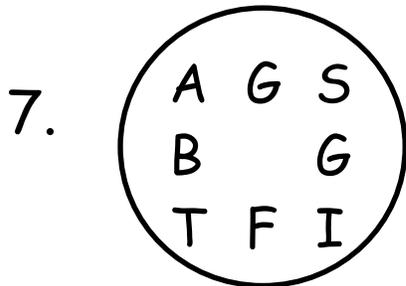
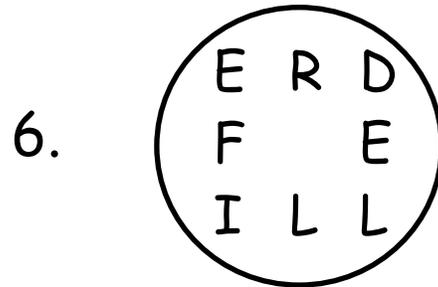
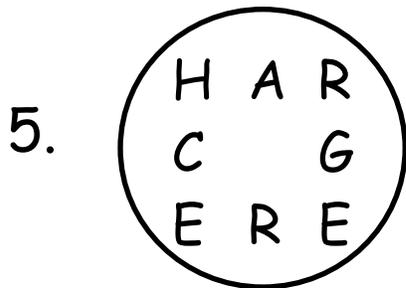
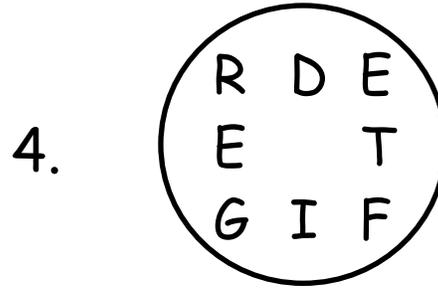
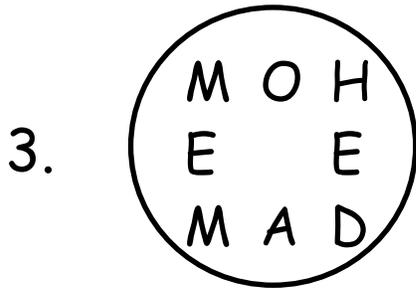
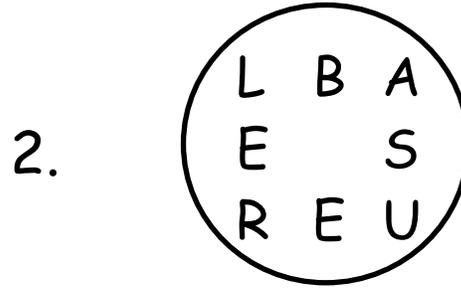
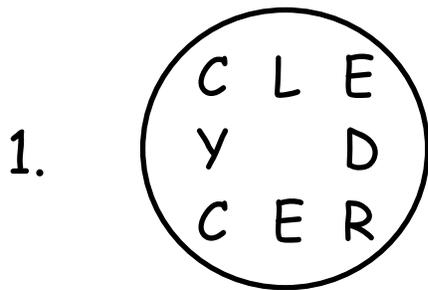
Make a copy of the master on the next page for each student or group of students.

Answer key: 1. Recycled; 2. Reusable; 3. Homemade; 4. Regifted; 5. Recharge; 6. Refilled; 7. Gift bags; 8. Maintain

Roundabouts

Name: _____

Directions: Each circle of letters spells a word about reducing waste this winter, but it's up to you to find out what the words are! For the first four, you start at one of the four corners and then follow the letters around in a circle. You will need to figure out which corner. Remember that the circle may go clockwise or counterclockwise. For the last four, the first letter might be anywhere, so you'll need to find it.



Skills and Standards

| Activity | Subject Areas | Skills Addressed |
|---------------------------------|------------------------------|---|
| Beginnings & Endings | <i>English/Language Arts</i> | Applying knowledge of word structure elements (prefixes and suffixes), known words, and word patterns; Using spelling patterns for adding affixes; Reading words in context using knowledge of roots and related prefixes and suffixes (morphology) to determine meaning <i>Grade 3:</i> RF.3.3a; RF.3.3b; L.3.4a; L.3.4b <i>Grade 4:</i> RF.4.3a; L.4.4a; L.4.4b; <i>Grade 5:</i> RF.5.3a; L.5.4b |
| Fraction Action | <i>Math</i> | Understanding, interpreting, and comparing fractions; Solving real-world problems involving addition and subtraction of fractions referring to the same whole number <i>Grade 3:</i> 3.NF.1; 3.NF.3d <i>Grade 4:</i> 4.NF.2; 4.NF.3a; 4.NF.3d <i>Grade 5:</i> 5.NF.1; 5.NF.2; 5.NF.3; 5.NF.4a |
| Scrambled Science | <i>Science</i> | 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 3:</i> 3.L.2 <i>Grade 4:</i> 4.L.1.1; 4.L.1.2; 4.L.1.3 <i>Grade 5:</i> 5.L.2 |
| Where in the World? | <i>Social Studies</i> | Using labels and symbols to locate and identify physical and political features on a map; Comparing relative locations on a map <i>Grade 3:</i> 3.G.1.1; 3.G.1.3 <i>Grade 4:</i> 4.G <i>Grade 5:</i> 5.G |
| For the Birds | <i>Visual Arts</i> | Creating art with found objects; controlling and using three-dimensional media, techniques, and processes in creating art; demonstrating safe and proper use of materials and equipment; completing work and acquiring good craftsmanship <i>Grade 3:</i> 3.V.3.1; 3.V.3.2; 3.V.3.3 <i>Grade 4:</i> 4.V.3.1; 4.V.3.3 <i>Grade 5:</i> 5.V.3.1; 5.V.3.2; 5.V.3.3 |
| 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 3:</i> RI.3.2; RI.3.4; RI.3.7; L.3.4a; L.3.4d; L.3.6 <i>Grade 4:</i> RI.4.2; RI.4.4; RI.4.7; L.4.4a; L.4.4c; L.4.6 <i>Grade 5:</i> RI.5.2; RI.5.4; L.5.4a; L.5.4c; L.5.6 |