



America Recycles Day Patch Activities For Grades 3-5



Answer the following questions.

1. List at least three different ways to reduce or reuse paper:

- 1.
- 2.
- 3.

2. List six different items that can be recycled:

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.

3. Explain why it is important to reduce, reuse, recycle, and rebuy, OR older students may explain the difference between source reduction and reuse.

4. Name a way each of these items can be reused instead of throwing them away.

Cardboard Box _____

Plastic Milk Carton _____

Glass Jar _____

Wooden Board _____

Plastic Bag _____

Newspaper _____

5. Find out where your nearest recycling center is located and write the address below:

6. Find out what items are accepted for recycling at your recycling center.

- 1.
- 2.
- 3.
- 4.
- 5.
- 6.
- 7.
- 8.
- 9.
- 10.

7. If you have curbside recycling at home, list what items are accepted:



America Recycles Day Patch Activities For Grades 3-5



Complete THREE (3) of the following activities.

Activity 1

Answer the following questions.

1. List three ways you can help the environment in your community, at home, and at school.

1.

2.

3.

2. Visit one of the four following locations and describe your experience:

Landfill (Find out where our trash goes when we throw away)

Architectural Salvage Program: Significant Elements (Offer to volunteer for the program for a few hours and learn a lot!)

Recycling & Solid Waste Center (Find out what happens to your recyclables and go for a tour)

Reuse Store (Visit a local reuse center or thrift shop in your community)

3. If your school has a recycling program, develop ways to educate the school and increase participation in the program, if not then write down ways that you start a recycling program in your school.

List some ideas or things you did:

4. For one day pick up litter from a local park, school, or other common area.

Separate the trash from the recyclables. Describe your experience:

Activity 2

Choose ONE (1) of the following:

1. Complete math problems, for appropriate grade, and show work.
2. The Coded Message! (Refer to additional packet.)

1. Third Grade

The recycling center pays 25 cents per pound for aluminum cans. Jan took seven pounds of aluminum cans to be recycled. How much money did Jan earn at the recycling center?

If the average person throws away 4 pounds of garbage every day, how many pounds of garbage does one person throw away in one year (365 days)?

Forth Grade

If 10 percent of the money you spend on groceries is for packaging and you spend \$75 at the grocery store, how much money was spent on packaging?

Bob made \$1.60 by recycling aluminum cans. He wants to buy a drink and a candy bar at the store. A drink costs 50 cents and a candy bar costs 45 cents. How much money will Bob have left?

Fifth Grade

Monica pays \$9.50 per month for trash service. She is allowed to have two barrels of trash per week. Monica decides to start recycling and only sets out one barrel of trash each week. By having only one barrel of trash each week, the cost of her trash service decreases by 30 percent. How much does Monica pay for trash service now?

Stan, Frank, and Tony are on the baseball team. They need to raise \$150 for new uniforms. They have an aluminum can collection at their school. Each week they make \$25 at the recycling center for the cans they collect. How long will it take them to raise enough money for their new uniforms?

Activity 3

Choose ONE (1) of the following: Refer to additional packet.

1. Make Recycled Paper
2. Create a "recycled" or "trash" art sculpture.
3. Write a poem about reduce, reuse, and recycling.

Activity 4

Choose FOUR (4) of the following games: Refer to additional packet.

1. How Long Will it Last????
2. Word Search
3. Crossword Puzzle
4. Match the Raw Material to the Product



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Activities Packet For Grades 3-5**





The Coded Message!

Solve the problem, then find the letter in the key that matches the answer and solve the coded message.

$53 - 38 = \underline{\hspace{2cm}} \text{ O}$

$42 + 21 = \underline{\hspace{2cm}} \text{ C}$

$91 - 39 = \underline{\hspace{2cm}} \text{ R}$

$11 + 7 = \underline{\hspace{2cm}} \text{ M}$

$77 - 65 = \underline{\hspace{2cm}} \text{ I}$

$17 + 22 = \underline{\hspace{2cm}} \text{ K}$

$91 - 15 = \underline{\hspace{2cm}} \text{ V}$

$53 + 39 = \underline{\hspace{2cm}} \text{ B}$

$34 - 15 = \underline{\hspace{2cm}} \text{ E}$

$47 + 26 = \underline{\hspace{2cm}} \text{ Y}$

$24 + 34 = \underline{\hspace{2cm}} \text{ L}$

$88 - 41 = \underline{\hspace{2cm}} \text{ T}$

$16 + 16 = \underline{\hspace{2cm}} \text{ P}$

$52 - 25 = \underline{\hspace{2cm}} \text{ D}$

$33 + 32 = \underline{\hspace{2cm}} \text{ A}$

$63 - 47 = \underline{\hspace{2cm}} \text{ F}$

$19 + 3 = \underline{\hspace{2cm}} \text{ S}$

63 19 58 19 92 52 65 47 19

65 18 19 52 12 63 65

52 19 63 73 63 58 19 22

27 65 73 15 12

12 15 76 19 18 92 19 52

15!



Making Recycled Paper



Materials Needed:

- Waste paper of various grades and colors (white or colored bond, construction, crepe, notebook)
- Screens - any window screen (nylon works the best), cut into the size of your choice (tape the edges for safety)
- Sponges and rags
- Blender
- Plastic tub or bucket
- Stack of old newspapers, divided into sections
- Additives (optional) - Dryer lint, seeds, feathers, string, dried flowers, etc. can be pressed into the pulp when pressing out the water.

Making the Paper:

1. About two 8 $\frac{1}{2}$ x 11" sheets equal one piece of recycled paper. Tear waste paper into small strips and tear small strips into small squares. Fill a blender about $\frac{1}{2}$ full with the paper scraps and then cover them with water (an inch or two past the top of the paper).
2. Run the blender on high until the contents are well blended and mushy. The wet paper pieces are called pulp, and the mixture is called a slurry.
3. Place the screen over the plastic tub and pour the slurry from the blender onto the screen. Shake the screen back and forth a bit to distribute the slurry evenly. Then, lift the screen up by spreading your hand underneath it, and let the water drain in the tub for a few seconds.
4. If you will be pressing items into the paper, add them now. Place another piece of screen over the paper pulp and press the two screens together between your hands, squeezing the water into the tub. Dab a sponge over the screen to help squeeze the excess water out.
5. Lay the screens enclosing the paper pulp on a section of newspaper. The newspaper will help absorb water out of the new piece of paper. With the sponge on top of the screen, press water out of the paper, flattening the pulp as you go. You can also use the edge of the sponge (or your fingertips) to shape the paper onto the screen.
6. When you have pressed most of the water out of your paper with the sponge, carefully lift off the top screen and, with a flat hand supporting the entire screen, hold the bottom screen with pulp as you turn the newspaper stack over, exposing the dry side. Set the screened unit, pulp side down, on the dry side of the newspaper stack.
7. Carefully peel away the screen from the new paper. Allow paper to air dry overnight or in a sunny place for a few hours.

Enjoy your recycled paper by using it to make cards, picture mats or other beautiful craft projects!

"Recycled" or "Trash" Art Sculpture

Directions:

- Use mostly recyclable or trash items to make your sculpture. Use as many recyclable items OR trash items OR any combination to create your art sculpture!
- Please limit the size of your sculpture to no larger than 2 x 2 x 2 feet.
- Please include a brief description, on separate sheet of paper, about the artwork including but not limited to; name of piece, materials used, what the piece represents or reflects, etc.).

Submitting Sculpture:

Please send your description and several pictures of your sculpture by Email, as attachments, to segan@tompkins-co.org, or by Mail to:

Tompkins County Solid Waste Management Division
Attn: America Recycles Day Patch Program
122 Commercial Avenue
Ithaca, NY 14850



Write a Poem

Directions:

- Write a short poem about ONE or ALL of the 4R's, Reduce, Reuse, Recycle, and/or ReBuy. You may also write about composting, another environmental issue, or expresses your relationship or connection to the environment. Refer to Topic Suggestions page.
- Can be typed, double-spaced in Times New Roman or similar font, or NEATLY hand written, in print.

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How Long Will it Last????

Write Down How Long You Think The Item
Will Last Before It Decomposes (rots)!

Some answers are used more than once.

PICK FROM THE FOLLOWING

1 - 3 Months

10 - 20 Years

200 - 400 Years

1 - 5 Years

100 Years

More than 500 Years

ALUMINUM CAN



GLASS BOTTLE



METAL CAN



CIGARETTE BUTTS



PAPER CUP



BANANA PEEL



DISPOSABLE DIAPERS



WOOL SOCKS



6-PACK HOLDER





Word Search

Find these words in this puzzle
Look from right to left, left to right, and diagonally!



Environment
Reduce
Reuse
Recycles
Compost
Buy Recycled

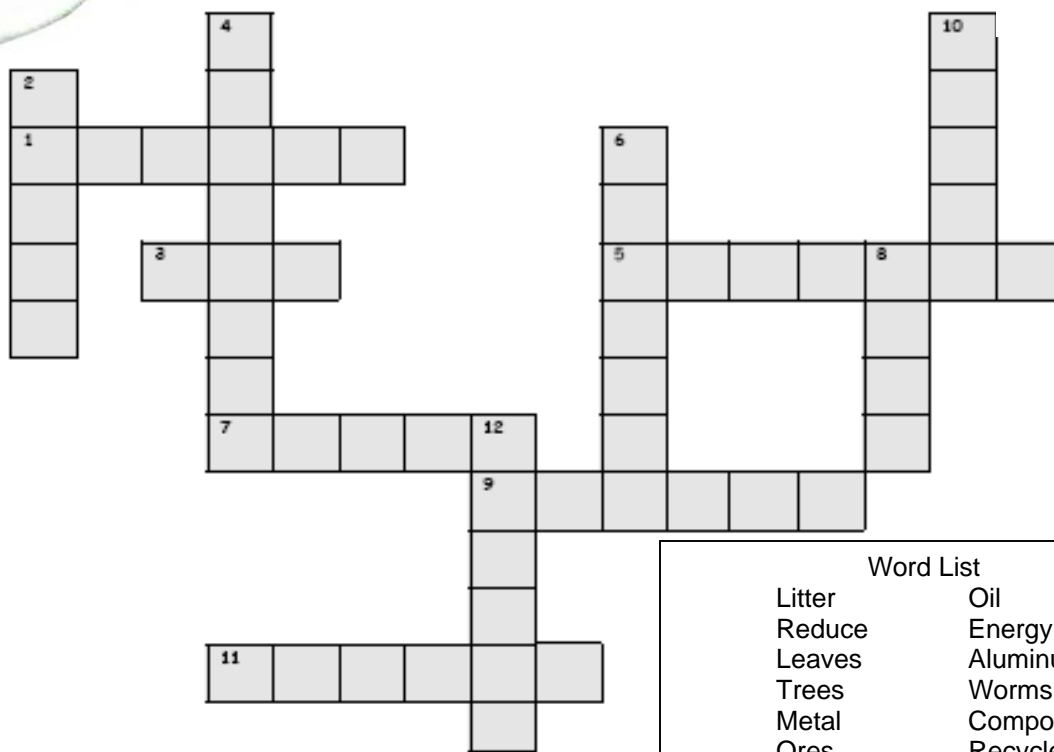
Paper
Trees
Metal
Ores
Glass
Sand

Plastic
Oil
Landfill
Litter

R	E	K	L	R	S	R	S	J	W	T	S	T	Z	P
T	P	N	O	E	A	L	A	T	E	M	E	O	I	L
B	L	H	V	S	G	P	N	D	M	H	U	R	R	A
C	R	J	E	I	H	M	D	F	E	G	L	E	E	S
O	E	F	S	F	R	E	C	Y	C	L	E	S	C	T
N	D	L	D	J	K	O	T	G	T	L	G	D	L	I
D	U	S	L	C	H	N	N	R	U	F	O	L	A	C
J	C	O	M	P	O	S	T	M	P	G	I	R	N	P
Y	E	D	A	Z	L	V	R	P	E	M	L	W	D	A
W	B	P	X	R	G	B	T	R	G	N	K	C	F	T
L	E	V	C	U	L	I	T	T	E	R	T	H	I	R
R	G	H	B	I	A	N	U	H	E	Y	S	L	L	E
G	R	D	R	K	S	R	I	S	N	D	A	T	L	E
K	A	G	T	F	S	Y	U	F	D	K	S	A	E	S
Q	M	B	U	Y	R	E	C	Y	C	L	E	D	A	W



Crossword Puzzle



Word List	
Litter	Oil
Reduce	Energy
Leaves	Aluminum
Trees	Worms
Metal	Compost
Ores	Recycle

Across

- If we do not make garbage to begin with, we _____.
- Plastic is made from _____.
- When leaves, grass clippings, fruit and vegetable waste rots, we call it _____.
- If we recycle one ton of _____ we save 2,500 pounds of iron ore, 1,000 pounds of coal and 40 pounds of limestone.
- When we recycle we save natural resources, time, money, landfill space and _____ and we make less pollution.
- Trash thrown along roads, shorelines and other places it doesn't belong is called _____.

Down

- If we recycle one ton of paper, we save 17 _____.
- If we recycle one _____ can, we save enough energy to run a TV for three hours.
- If we take materials that would otherwise be waste and turn it into something new, we _____.
- Metals come from _____.
- _____ work to breakdown leaves, grass, fruit and vegetable wastes into compost.
- _____ make great compost when mixed with grass clippings and certain food wastes.

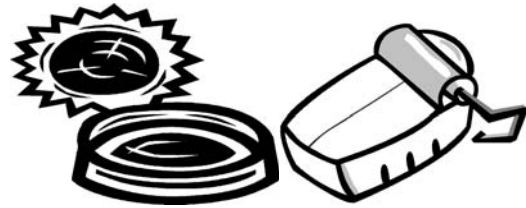
Match the Raw Material with the Product

Draw a Line from the Raw Material to the Product.

Raw Material



Product



Metal Cans



Fiberglass Insulation



Plastic Bottles



Paper Towels