EARTH DAY EVERY DAY

A Middle School Curri	iculum on Recycling	
Name		Date:
Directions : These are qu	uestions you may not know. Try yo	BOUT GARBAGE PRE-TEST or best! You will review your answers to the pre-test at the a will need a calculator for the math questions.
1. What is garbage?		
2. Which country mak a. Germany c. United State	kes the most garbage per pers b. China es d. Mexico	on, per day?
a. there were f	t have the garbage problem v few people page was biodegradable	b. they were nomadic hunters and gatherers
load?	tory-made goods, meaning mo estyle able garbage	tion - the era of factories - that increased our garbage ore stuff to buy and throw away
more than one answe a. the runoff w b. they are left c. they are bui	er. vater is tested for toxins t uncovered so the wind can b ilt with a thick lining to keep to:	
6. In the United States a. landfills c. burned	s, where does most of our garb b. rivers d. recycled	
7. Which kind of garb a. plastic c. metal	age do we make more of that b. glass d. paper	n any other?
8. How many plastic k a. 150 c. 250,000	oottles do Americans throw aw b. 3,000 d. 2.5 millio	
9	humans are added to th	e planet every minute.
•		counds of waste per day. If the population of the US is the is produced per day? (Show your work)

5 Unit I

EARTH DAY EVERY DAY A Middle School Curriculum on Recycling

Name	Date:

HISTORY OF GARBAGE WORKSHEET

1. Write your own definition of garbage:
2. Early humans never had the garbage problem we face today, because
3. Garbage was not a problem until people began to live in and
4. For a long time, garbage was thrown into the and and
5. During the Industrial Revolution, Americans were introduced to and could afford to buy more stuff.
6. Rainwater can wash the found in our dumps out into our drinking water.
7. Modern landfills include a thick to prevent the leakage of toxins into our soils.
8. With the invention of, America became a "throwaway society."
9. We make as much garbage as most other industrialized countries.
10. Garbage has become a because we don't know how we will safely dispose of it all.
11. Try as we might, we can never really make garbage
12. Name one solution to our garbage crisis:
13, Using games, experiments, and activities, we will be finding out more about the garbage crisis, but first let's talk about history in regards to its garbage.
14. The city of Fairbanks was founded in
15. Early Fairbanksans waited for so the river would take away the garbage.
16. In 1904, the city council created a garbage dumping site yards beyond the city limit and yards away from the river.
17. Name two things we still dumped into the Chena River from the 1940s to the 1960s: and

N	lame			
	4111			

Math Path to 7 Billion Student Worksheet - Version A

DIRECTIONS

Read through the questions and solve each problem using division.

Question I.

If the population was growing by I million (1,000,000) people per year, as it was in 1492 when Columbus arrived in the Americas, how many people would be added to the planet each minute?

Process (round to the nearest whole number):

a. First, change the number of people/year into the number of people/day by dividing by 365.

b. Change the number of people added/day into the number of people/hour by dividing by 24 hours.

c. Change the number of people/hour into the number of people/minute by dividing by 60 minutes.

ANSWER: ______ people would have been added to the planet each minute.

EARTH DAY EVERY DAY

A Middle School Curriculum on Recycling

Question	~
LUDSTION	,
Oue3uon	

Using the same process as you used in question I, answer the following question. If the population is growing by 82 million (82,000,000) people per year, as it is currently, how many people are being added to the planet each minute?

a. First, change the number of people/year into the number of people/day by dividing by 365.

b. Change the number of people added/day into the number of people/hour by dividing by 24 hours.

c. Change the number of people/hour into the number of people/minute by dividing by 60 minutes.

ANSWER: _____ people are being added to the planet each minute.

EARTH DAY EVERY DAY A Middle School Curriculum on Recycling

Name	Date:
1401110	

Math Path to 7 Billion Student Worksheet - Version B

DIRECTIONS

Read through the questions and solve each problem using division.

Question 1.

If the population was growing by I million (1,000,000) people per year, as it was in 1492 when Columbus arrived in the Americas, how many people would be added to the planet each minute?

Procedure: Do the calculations. Show your work.

ANSWER:	peo	ple would have been	added to the	planet each minute.

EARTH DAY EVERY DAY A Middle School Curriculum on Recycling Question 2.

Using the same process as you used in question I, answer the following question. If the population is growing by 82 million 82,000,000) people per year, as it is currently, how many people are being added to the planet each minute?

Procedure: Do the calculations, rounding to the nearest whole number. Show your work.

ANSWER: _____ people are being added to the planet each minute.

Name______ Date:_____

HOMEWORK: All About Garbage!

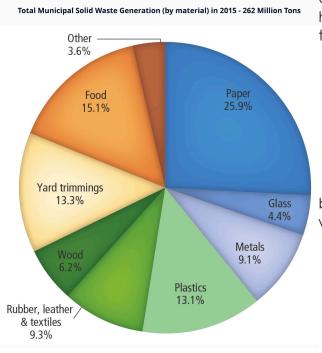
hat do you put in the garbage can every day? Once you toss it, chances are you never want to think about it (or smell it) again. But take a closer look. It's not all gross.

1. The average American generates 4.5 pounds of waste per day. Calculate how many pounds of waste your family would generate in a week. Formula:

(4.5 pounds x number of people in your family) x 7 = pounds of waste your family would generate in a week Show your work below:

2. Use your answer to figure out how much waste your family would generate in a year (365 days). Show your work below:

3. The the following chart is a general overview of what's in America's trash, according to the Environmental Protection Agency (EPA).¹⁸



a. Does it surprise you to know that most of your school and household waste is likely paper (one of the easiest materials to recycle)?

b. What can your class and/or family do to produce less waste?

EARTH DAY EVERY DAY

A۱	Middle School Curriculum on Recycling
Na	me Date:
	HOMEWORK: Story of Stuff Reflection
Re sel	any facts in the film The Story of Stuff may have surprised you. Select one (or more) of the facts below. flect on the fact(s) you selected and write a half page on the subject. Be sure to include why you ected the fact(s) and what you found interesting about them. Be sure to use correct punctuation and ammar.
Ass	signment due:
1	We see more advertisements in one year than a person 50 years ago saw in a lifetime .
*	Each person in the United States creates an average of 4 1/2 pounds of garbage a day . That is twice what we made thirty years ago.
*	Even if we could recycle 100% of the waste coming out of our homes, it doesn't get to the core of the problem.
W.	70 garbage cans' worth of junk were created to make just one can of garbage you throw out
*	Human happiness peaked in the 1950s at the same time consumption mania exploded and has been dropping ever since .