#### **Topic: OVERVIEW**

**MAIN MESSAGE:** By making informed choices and working together, we can create less trash and help save the world a little each day.

#### **VOCABULARY:**

- 1) New York State Department of Environmental Conservation (NYSDEC) The NYSDEC is the part of New York State government that is responsible for the conservation, improvement and protection of natural resources within the state.
- 2) Waste A material that is thrown away or discarded.
- 3) **Dump -** A location site for depositing garbage with no special features to protect the environment.
- 4) **Reduction** The act of making something smaller or less in size, amount or degree.
- 5) **Reuse** To use an item more than once.
- 6) **Recycling** The process of turning waste into reusable material.
- 7) **OCRRA** Onondaga County Resource Recovery Agency. The organization that oversees what happens to the waste in communities throughout Onondaga County.
- 8) **Energy Recovery** The process of turning trash into energy.
- 9) Landfill A place where trash is buried in a safe way to prevent air and water pollution.
- 10) **Compact Fluorescent Bulb (CFL)** A type of light bulb that uses less energy, but is difficult to dispose of safely because it contains mercury.
- 11) Waste-to-Energy Facility A facility that burns trash to produce steam and electricity.
- 12) Environment The natural world; the surroundings in which a person, animal or plant lives.
- 13) Litter Trash that is left lying in an open or public space.



lan	ne: Date:
	<b>Overview: Context Clues</b>
1.	Electricity can be created in lots of ways, by burning coal or natural gas for example. By using trash instead we save these natural resources at the same time we are getting rid of trash. In this passage <i>natural resource</i> refers to
2.	Through composting, we can work together to turn leaves, grass, apples cores, half eaten sandwiche leftovers and yard trimmings into something that helps the environment. Composting uses only <i>organic materials</i> in its process. From the passage, what are three organ materials that can be used to compost?
3.	Paper napkins are disposable products, they are meant to be thrown away after one use. From the passage, what do you think <i>disposable</i> means?
4.	To conserve energy you can turn off lights, computer, fan or any electronic device you aren't using. <b>From the passage, a synonym for</b> <i>conserve</i> <b>might be</b>



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<b>Overview: OCRRA Equations</b> <b>Directions:</b> Learn some OCRRA factoids by answering these math questions.
OCRRA has been working since <u>1990</u> to keep our neighborhoods clean. <b>How many years has OCRRA been working?</b>
Equation:
OCRRA burns waste to create enough energy to power <u>30,000 homes per year</u> ! <b>How many homes will it have created electricity for in <u>5</u> years?</b>
Equation:
OCRRA repurposes about <u>400 tons</u> of waste that it collects from Syracuse University each year. <b>How many pounds of waste is this?</b> <i>Hint: 1 ton is <u>2,000 pounds</u>.</i>
Equation:
The average person creates about <u>3 pounds</u> of waste a day. <b>How much waste does YOUR famil</b> create:
<ul> <li>a. Daily?</li></ul>
Equation:
Equation:
Equation:
Did you know that five large soda bottles produces enough material to make an entire ski jacket? How many soda bottles would we need to make a ski jacket for every student in the class?
Equation:

## **Overview: OCRRA Equations Answer Key**

1. OCRRA has been working since <u>1990</u> to keep our neighborhoods clean. **How many years has OCRRA been working?** 

Equation: <u>2014 – 1990 = 24 years</u>

2. OCRRA burns waste to create enough energy to power <u>30,000 homes per year</u>! How many homes will it have created electricity for in <u>5 years</u>?

Equation: <u>5 x 30,000 = 150,000 homes</u>

3. OCRRA repurposes about <u>400 tons</u> of waste that it collects from Syracuse University each year. **How many pounds of waste is this?** *Hint: One ton is <u>2,000 pounds</u>.* 

Equation: <u>400 x 2,000 = 800,000 pounds</u>

- 4. The average person creates about <u>3 pounds</u> of waste a day. **How much waste does YOUR family** create: (The answer below illustrates a four person family example)
  - d. Daily?  $4 \times 3 = 12$  pounds
  - e. Weekly? <u>7 x 12 = 84 pounds</u>
  - f. Monthly? (based on 31 days)  $31 \times 12 = 372$  pounds
- 5. Did you know that five large soda bottles produces enough material to make an entire ski jacket? How many soda bottles would we need to make a ski jacket for every student in the class? Equation: <u>Number of students x 5 = Number of ski jackets</u>



Name: \_\_\_\_\_

Date: \_\_\_\_\_

### **Overview: Persuasive Essay**

\_\_\_\_\_

**Directions**: Write a persuasive essay urging our local government to help fund OCRRA's programs. Use the 4-square organizer to guide you. Give three reasons and explain why they are important.

1 <sup>st</sup> Reason	2 <sup>nd</sup> Reason			
Topic Sentence:				
3 <sup>rd</sup> Reason	Closing			

ne:	:		Date:				
	<b>Overview: Word Bank</b> <b>Directions</b> : Fill in the blanks using words from the word bank below.						
1.	We can	_ waste by us	ing reusable containers.				
2.	Through cans into new products.	_ we turn ite	ms like newspapers, bottles and				
3.	The process of making trash into called energy	-	the Waste-to-Energy Facility is				
4.	Landfills are places where trash	is	·				
5.	5 is an acronym that stands for Onondaga County Resource Recovery Agency.						
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# **Overview: Word Bank Answer Key**

- 1. Reduce
- 2. Recycling
- 3. Recovery
- 4. Buried
- 5. OCRRA



Name: \_

\_\_\_\_\_ Date: \_\_\_\_\_

#### **Overview:** Test

**Directions:** Answer the following questions after watching the Overview video.

1. Before reusing and recycling, people were worried that over time, town dumps would pose a threat to:

- A. Drinking water
- B. Clean air
- C. Garbage trucks
- $D. \ Both \ A \ and \ B$

2. In Onondaga County we recycle about \_\_\_\_\_% of our waste?

- A. 20%
- B. 40%
- C. 60%
- D. 80%

3. All of these items should be recycled in the blue bin EXCEPT:

- A. Newspaper
- B. Toxic household chemicals
- C. Cans
- D. Plastic bottles
- 4. OCRRA uses energy from burning trash to create electricity?
  - A. True
  - B. False
- 5. Everyone can help keep our community beautiful by remembering the three R's. What are they?

R	 	 	
R	 	 	
R			



## **Overview: Test Answer Key**

- 1. D. Both A and B
- 2. C. 60%
- 3. B. Toxic household chemicals
- 4. A. True
- 5. Reduce; Reuse; Recycle

