

School-wide Audit Analysis

Name: _____ Date: _____

Now that you have collected all of your data for the School Waste Audit this year, you will analyze and graph the data so that it can be used to educate your school on their waste production and to develop strategies to reduce waste in future years. You will need access to the data from the entire audit in order to analyze the data on a school-wide level.

1. Calculate the total weight of waste in pounds generated by your school in one day.
2. Based upon your answer from the previous question, what is the estimated total volume and weight of waste generated at your school each year?
 - a. What is the estimated total volume and weight of material placed in the garbage at your school each year?
 - b. What is the estimated total volume and weight of material placed in recycling at your school each year?
 - c. Make a simple bar graph or pie chart showing this information.
3. If all of the recyclables and waste were put in their appropriate containers, what would be the estimated total volume and weight of:
 - a. Garbage waste?
 - b. Recycled waste?
4. What percentage of your waste does your school currently recycle?
5. If your school is not recycling every material it can through the current vendor, determine how the volumes and weights of overall recycling and garbage would change for one year if they did recycle everything possible.
6. For the whole school, how many pounds of garbage is generated by each student, on average? Please answer in **pounds per student**.
7. For the whole school, how many pounds of recycling is generated by each student, on average? Please answer in **pounds per student**.

8. Based on your data, in one school year what percentage of recyclables that your school is set up to recycle is going into landfills instead? Make a different pie chart for each recyclable material for a visual aid giving the percentage of recyclables recycled versus percentage of recyclables thrown in the trash.
 - a. Out of the recyclable materials your school recycles, which material is most frequently put in garbage waste?

9. Once your class has determined the most practical way to improve waste disposal at your school come back to this question and answer it. Based on your new plan, calculate the overall weight and volume of garbage collected at your school in one year and the weight and volume of recyclables collected at your school in one year.