

Waste Survey –MAD Green Grants 2019

1.0 Teacher Information

Why do a waste survey? A waste survey helps us work out how much and what type of waste created in your school. For the MAD Green Grant survey you will be working with your students to collect information **before** and **after** your project.

Using the following worksheets you will estimate the weight, volume and type of waste produced by your school. This activity is best run in the afternoon using waste from the start of the day. Try and select a calm day, wind can result in littering the schools grounds.

2.0 Survey Method:

Part one -

- Divide your class into groups (groups of 4-5 work best)& nominate the team leader, scribe, weigher, sorter and monitor each group
- Collect all the necessary equipment (below)
- Using a selection of bins from the school grounds (i.e. staff room, canteen, playground etc.) appoint a group to each bin. We recommend sampling either 10% or 25% of all bins
- Spread out the plastic tarp and pour out the contents of the bin
- For the purposes of the survey, the waste will be divided into three waste streams: Food, Recycling & General waste
- Separate the waste out into three streams using the tools and gloves
- Once the waste is separated into three piles, place the contents of the food waste into the bucket provided

Part two

- Using the electronic scales, weigh the food waste recording the weight on the record sheet
- Record the amount of buckets (volume) on the record sheet.
- Empty the bucket back into the bin and do the same for recycling and general waste
- At the bottom of the record sheet calculate the total weight of recyclables and food (compostable) waste

Part three

- Calculate the total waste weight (add together the recyclables, food and general waste)
- Finally calculate the total tonnes of waste your school generates a year. It might be helpful to compare this weight to a car (or similar). The average family car weights around one tonne.
- **Promote your findings** in your school newsletter, local newspaper, on your school website or Facebook page.

3.0 Equipment you will need:

- | | | |
|---------------------------|--------------------------|-----------------|
| • Gloves | • Calculator, | ** You can |
| • litter pickers or tongs | • Buckets or containers. | borrow some |
| • A tarp | • Clipboards and pens. | electric scales |
| | | from Council ** |

Please note: Staff and students should wear gloves & enclosed shoes at all times, and wash hands thoroughly at the end of the activity.

4.0 Waste Survey #1

COMPLETE & SUBMIT THIS ***BEFORE*** YOU COMMENCE YOUR PROJECT. DUE TERM 2 WEEK 4 FRIDAY 24 MAY 2019.

Part one – Details

Name of School _____ Date & Time _____

Group/Class of students responsible for survey _____

What is your school's population? _____ Teacher's name _____

Part two – Record

Waste Survey	Food	Recyclables	General Waste	Total
Volume (Buckets)				
Weight (kg)				

Part three - Calculate

Q1. How much waste could be kept out of the landfill if you recycle and compost?

Calculate the total amount of food and recyclables sampled _____

Q2. How much waste does your whole school produce?

- Calculate** the total amount (kg) sampled of all the three waste streams _____
- How many bins sampled? _____
- How many bins in your school? _____
- % of bins sampled _____

** If you have sampled 10% of bins use this calculation: Total weight (Kg) x 10

**If you have a sampled 25% of bins use this calculation: Total weight (kg) x 4

Calculate (a x d) = total kg of waste from your school _____

Q3. How much waste per person does your school produce?

Total amount of waste from your school divided by total number of students _____

Q4. How much waste does your school produce each year?

- If your bins are emptied daily **calculate** the number of school days in a year multiplied by the total amount of waste by that number.
- If your bins are emptied weekly calculate how many school weeks are in the year and multiply this number by the total amount of waste

How many kg of waste does your school make in a year _____?

Please submit data from your completed survey online no later than 5pm Friday 21st June 2019 via email to jessica.steinborner@chcc.nsw.gov.au.

5.0 Waste Survey #2

COMPLETE THIS **AFTER** YOU COMPLETE YOUR PROJECT AND SUBMIT BY 5PM FRIDAY 22 NOVEMBER JUNE 2019 AS PART OF YOUR FINAL EVALUATION REPORT.

****NB**** Remember to sample the same number of bins sampled in waste survey #1!!

Part one – Details

Name of School _____ Date & Time _____

Group/Class of students responsible for survey _____

What is your schools population? _____ Teacher's name _____

Part two – Record your results

Use the table below to record and compare the results recorded in both Waste Surveys.

Waste Survey	Food	Recyclables	General Waste	Total
Volume (# Buckets) Waste survey #1				
Volume (# Buckets) Waste survey #2				
<i>Difference</i>				
Weight (kg) Waste survey #1				
Weight (kg) Waste survey #2				
<i>Difference</i>				

Part three – Calculate using your Waste Survey #2 results

Q1. How much waste could be kept out of the landfill if you recycle and compost?

Calculate the total amount of food and recyclables sampled _____

Q2. How much waste does your whole school produce?

e) **Calculate** the total amount (kg) sampled of all the three waste streams _____

f) How many bins sampled? _____

g) How many bins in your school? _____

h) % of bins sampled _____

** If you have sampled 10% of bins use this calculation: Total weight (Kg) x 10

**If you have a sampled 25% of bins use this calculation: Total weight (kg) x 4

Calculate (a x d) = total kg of waste from your school _____

Q3. How much waste per person does your school produce?

Total amount of waste from your school divided by total number of students _____

Q4. How much waste does your school produce each year?

- If your bins are emptied daily **calculate** the number of school days is in a year multiplied by the total amount of waste by that number.
- If your bins are emptied weekly calculate how many school weeks are in the year and multiply this number by the total amount of waste

Part four – Evaluation and next steps

Q5. Looking at the results from Survey # 1 (completed *before* your project) and Survey #2 (completed *after* your project) can you notice any differences in the amount or type of waste sorted?

Q6. What further actions can you identify to maintain or continually improve the waste management next year?

Area	Action	Person(s) responsible
Classroom		
Playground		
Other		

**Thank you for taking the time to complete this survey.
Please submit data from your completed survey online no later than 5pm Friday 22nd November 2019 via email to Jessica.steinborner@chcc.nsw.gov.au.**

For further information please call (02) 6648 4643.