



Eco-Schools USA Global Dimensions Audit



Learning Objectives

- To investigate what actions the school has taken to incorporate a global understanding into its curriculum.

Curriculum Links

Citizenship, Geography, Social Studies

Eco-Schools USA Pathway

Global Dimensions

Do students consider how actions taken within the school affect people and the environment locally and globally?

Yes

No

If so, please give examples:

| School Action | Local Effect | Global Effect |
|---------------|--------------|---------------|
| | | |
| | | |
| | | |

Of the Eco-Schools topics that you may have looked at in the past, have you explored how these issues might be approached in other parts of the world?

Yes

No

If so, please give examples:

| Eco-Schools topic | Location(s) looked at |
|-------------------|-----------------------|
| | |
| | |
| | |
| | |

| | |
|---|--|
| | |
| Have the students had an opportunity to interact with students living in other parts of the country and around the world? | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Do students acknowledge and celebrate cultural differences among their own classmates? | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Are the opportunities for considering global environmental issues maximized in the curriculum? | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Does the school use materials from other organizations to enhance opportunities to learn about global issues? | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Have students considered other global issues, such as: | |
| Human rights and ethics? | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Fair Trade? | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Conflict Resolution? | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Has the school encouraged and provided opportunities for students to: | |
| Volunteer their time? | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Learn about the political process? | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Involve themselves in the community? | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Any further comments on global issues: | |
| | |



Eco-Schools USA Transportation Audit



Learning Objectives

- To assess the current transportation practices and impacts at the school.
- To collect, record, map and interpret travel data.

Curriculum Links

Mathematics, Science, Social Studies, Citizenship

Eco-Schools USA Pathways

Transportation, Climate Change, Green Hour

We all use various forms of transportation to get to school. Some of us walk, some bike, some use public transportation or a private vehicles. Our transportation choices have an impact on the environment and our health. This section will help your Eco-Action Team assess the transportation choices people in your school are making and help you to identify alternatives. Please feel free to add or edit questions so that it makes sense for your school and local community.

Step 1. Have each classroom in your school complete the transportation assessment worksheet below.

Step 2. Total all classroom assessments from Step 1 for use in the Transportation Audit.



Part 1. Classroom Transportation Worksheet

Each classroom in your school should fill out this worksheet.

Classroom #:

Teacher:

Grade Level:

Subject:

Total # in Class (Students & Staff):

Date of Assessment:

1. How do students and staff get to school? (# of each)

| | | | |
|--------------------|--------|------------|--------|
| Personal Vehicle | Number | School Bus | Number |
| Hybrid/Alternative | Number | Public Bus | Number |
| Car | Number | Bike | Number |
| Van/Minivan | Number | Walk | Number |
| Truck | Number | Other | Number |
| SUV | Number | Other | Number |

2. How many of the students and staff carpool to school?

Note: A carpool must have 1 driver plus 2 or more students or 1 driver plus 1 or more adults.

| | Number that Carpool | Convert these numbers to percentages |
|----------|------------------------|--|
| Students | | |
| Staff | | |



Part 2. School Transportation Totals

To answer questions 1 and 2, total all the classroom worksheets from Part 1. Then answer the remaining questions.

1. How do students and staff get to school? (Convert the totals to percentages.)

| | | | |
|--------------------|---|------------|---|
| Personal Vehicle | % | School Bus | % |
| Hybrid/Alternative | % | Public Bus | % |
| Car | % | Bike | % |
| Van/Minivan | % | Walk | % |
| Truck | % | Other | % |
| SUV | % | Other | % |

2. Approximately what percent of students and staff carpool to school?

Note: A carpool must have 1 driver plus 2 or more students or 1 driver plus 1 or more adults.

| | Percentage that Carpool |
|----------|-------------------------|
| Students | |
| Staff | |

3. Approximately how many buses drop off students at your school during the day?

| Time of Day | Number of Buses |
|--|-----------------|
| Before School | |
| During School (kindergarten or special programs) | |
| After School | |

4. Do your buses idle their engines for longer than 3 minutes while waiting for students?

Yes No

5. Does your school/district use bio-diesel for any of its cars, trucks, and buses?

Yes No

6. Besides buses, what other types of vehicles does your school own or use? What is their average gas mileage?

| Type of Vehicle | Number | Use | Average Gas Mileage |
|-----------------|--------|-----|---------------------|
| Large car | | | |
| Mid-sized car | | | |
| Economy car | | | |
| Hybrid | | | |
| Electric | | | |
| Van | | | |
| Truck | | | |
| Other | | | |

7. Does your school community participate in a *Safe Routes to School Partnership*?

Yes No

| 8. Does your school allow students to bike to school? | <input type="checkbox"/> Yes <input type="checkbox"/> No | | | | | | | | | | | | | | | | | | |
|---|--|--------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| 9. Does your school provide bicycle racks and a safe place to store bikes for students and staff? | <input type="checkbox"/> Yes <input type="checkbox"/> No | | | | | | | | | | | | | | | | | | |
| 10. Does your school have a “Walking School Bus” program? | <input type="checkbox"/> Yes <input type="checkbox"/> No | | | | | | | | | | | | | | | | | | |
| 11. Which of the following options are available for students and staff to get to and from school? | | | | | | | | | | | | | | | | | | | |
| Sidewalks | <input type="checkbox"/> Yes <input type="checkbox"/> No | | | | | | | | | | | | | | | | | | |
| Bike Paths | <input type="checkbox"/> Yes <input type="checkbox"/> No | | | | | | | | | | | | | | | | | | |
| Bike Lanes | <input type="checkbox"/> Yes <input type="checkbox"/> No | | | | | | | | | | | | | | | | | | |
| Public Transportation | <input type="checkbox"/> Yes <input type="checkbox"/> No | | | | | | | | | | | | | | | | | | |
| School Buses | <input type="checkbox"/> Yes <input type="checkbox"/> No | | | | | | | | | | | | | | | | | | |
| Other | <input type="checkbox"/> Yes <input type="checkbox"/> No | | | | | | | | | | | | | | | | | | |
| 12. Are sidewalks and bike paths safe and accessible for all? | <input type="checkbox"/> Yes <input type="checkbox"/> No | | | | | | | | | | | | | | | | | | |
| 13. Does your school curriculum include transportation-related topics including health, safety, and environmental impacts? | <input type="checkbox"/> Yes <input type="checkbox"/> No | | | | | | | | | | | | | | | | | | |
| If yes, which subjects or courses and at what grade levels? | | | | | | | | | | | | | | | | | | | |
| <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr style="background-color: #e0e0e0;"> <th style="width: 35%; padding: 5px;">Subject / Course</th> <th style="width: 65%; padding: 5px;">Grade Levels</th> </tr> </thead> <tbody> <tr><td style="height: 20px;"> </td><td> </td></tr> <tr><td style="height: 20px;"> </td><td> </td></tr> <tr><td style="height: 20px;"> </td><td> </td></tr> <tr><td style="height: 20px;"> </td><td> </td></tr> <tr><td style="height: 20px;"> </td><td> </td></tr> <tr><td style="height: 20px;"> </td><td> </td></tr> <tr><td style="height: 20px;"> </td><td> </td></tr> <tr><td style="height: 20px;"> </td><td> </td></tr> </tbody> </table> | Subject / Course | Grade Levels | | | | | | | | | | | | | | | | | |
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14. Does your school sponsor or participate in any programs to encourage carpooling, use of public transportation, or non-vehicular transportation to and from school? If yes, describe the program

Carpooling: _____

Public Transportation: _____

Non-Vehicular: _____

Other: _____

Yes

No

Yes

No

Yes

No

Yes

No



Eco-Schools USA Energy Audit



Learning Objectives

- To investigate energy use within the school and identify inefficiency.
- To record and analyze energy data.

Curriculum Links

Mathematics, Science, Citizenship, Language Arts

Eco-Schools USA Pathways

Energy, Climate Change

Use these worksheets to help you to complete an Energy Audit. You will use the data you collect to create your Energy Action Plan.

The Energy Auditing documents are provided courtesy of Educational Dividends. Educational Dividends developed the curriculum for Student Power and the award-winning EnergyNet Project (www.energynet.net). Educational Dividends also manages the EnergyNet Project.

There are a number of different audit forms: Energy Lifestyles; Building Envelope; Foundation; Lighting; HVAC; and Equipment. You may need the assistance of your school facility manager or building engineer to answer some of these questions or help you to conduct the audit.

Step 1. Go to each room (classrooms, office, gym, lunchroom, etc.) and answer the questions below for each type of energy audit.

Step 2. Utilize the “Data Driven Decisions” forms to keep track of the number of rooms visited and the total number of each type of energy-wasting behaviors reported.

It may be helpful to determine the percentages associated with each energy-wasting behavior. This would be done by dividing the total number of occurrences for each energy-wasting behavior by the total number of rooms visited. *For example, if 60 rooms had “Lights On But No One’s Home” and the school has 120 rooms, then 60 divided by 120 = 50%.*

Step 3. Use the “Synopsis of Audit Results” to help to organize your findings.



Eco-Schools USA Energy Audit

ENERGY LIFESTYLES AUDIT FORM

| | |
|---|--|
| Room Number: | |
| Purpose: | |
| Side of Building (North, South East, West): | |
| We visited this room during the <i>(circle whichever applies)</i> : | <input type="checkbox"/> a.m. <input type="checkbox"/> p.m. |
| We found the room uncomfortably <i>(circle only if one applies)</i> : | <input type="checkbox"/> hot <input type="checkbox"/> cold |
| We believe this is due to: <i>(Please be as specific as possible.)</i> | <input type="checkbox"/> temperature settings <input type="checkbox"/> doors and/or windows open or leaking <input type="checkbox"/> blinds not closed <input type="checkbox"/> other: _____ <input type="checkbox"/> other: _____ |
| We found unnecessary: <i>(Please be as specific as possible.)</i> | <input type="checkbox"/> lights left on <input type="checkbox"/> equipment left on <input type="checkbox"/> water left on <input type="checkbox"/> other: _____ <input type="checkbox"/> other: _____ |
| We found the following maintenance problems: | <input type="checkbox"/> broken windows <input type="checkbox"/> cracks <input type="checkbox"/> dripping faucets <input type="checkbox"/> lights left on <input type="checkbox"/> equipment left on <input type="checkbox"/> water left on <input type="checkbox"/> other: _____ <input type="checkbox"/> other: _____ |
| Additional Comments: | |
| Signed by Auditors: | |
| Audit Date: | |



Eco-Schools USA Energy Audit

BUILDING ENVELOPE AUDIT FORM

Room Number or Location:

Purpose:

Side of Building (North, South East, West):

WINDOWS

From the inside, examine all outside windows for cracks and leaks.

Are the seals between the frame and the pane tight?

Yes No

Can they be opened and closed?

Yes No

Measure the windows:

Size: _____

Window Covering (*Indicate what window covering, if any, is used.*)

Window Covering: _____

OUTLETS

Indicate the number of light switches and electric outlets on any outside walls.

Number of light switches: _____

Number of electric outlets: _____

Do they have insulating outlet gaskets?

Yes No

DOORS

Examine all outside doors for cracks and leaks.

Is the seal around the door and the door frame tight?

Yes No

Can you see light around the frame?

Yes No

Note the number and condition of all outside doors.

Number of outside doors: _____

Condition of outside doors: _____

FOUNDATION:

From the outside, look at the foundation of the building.

Are there any visible cracks?

Yes No

Are there areas where plumbing or wiring is going into the building?

Yes No

TREES/SHADING:

If there are trees around the building, measure the distance from each tree to the building, and draw the location of the trees as they relate to the building wall. Use the space to the right for this drawing.

Identify the type and approximate height of tree (evergreen or deciduous).

Signed by Auditors:

Audit Date:

Credit: Educational Dividends



Eco-Schools USA Energy Audit

LIGHTING AUDIT FORM

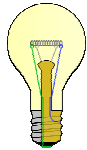
Room Number or Location: _____

Purpose: _____

Side of Building (North, South East, West): _____

DESCRIBE LAMPS USED:

Incandescent:



Number Used: _____

Watts per Lamp: _____

Type of Fixture: _____

Task: _____

Timer: Yes No

Compact
Fluorescent:



Number Used: _____

Watts per Lamp: _____

Type of Fixture: _____

Task: _____

Timer: Yes No

Fluorescent Tubes:

T12

(Size is written on
tube)



Number Used: _____

Watts per Lamp: _____

Type of Fixture: _____

Task: _____

Timer: Yes No

T8

(Thinner than T12)



Number Used: _____

Watts per Lamp: _____

Type of Fixture: _____

Task: _____

Timer: Yes No

LED



Number Used: _____

Watts per Lamp: _____

Type of Fixture: _____

Task: _____

Timer: Yes No

Other:

Number Used: _____

Watts per Lamp: _____

Type of Fixture: _____

Task: _____




Timer: Yes No

Total Wattage of Room:

_____ Watts

**NOTE: Complete this AFTER the
audit.**

Outside / Gym Lights:

| | | |
|--|--|--|
| <p>Mercury Vapor</p>  | <p>Number Used: _____ Type of Fixture: _____ Timer: <input type="checkbox"/> Yes <input type="checkbox"/> No</p> | <p>Watts per Lamp: _____ Task: _____</p> |
| <p>Metal Halide</p>  | <p>Number Used: _____ Type of Fixture: _____ Timer: <input type="checkbox"/> Yes <input type="checkbox"/> No</p> | <p>Watts per Lamp: _____ Task: _____</p> |
| <p>Sodium</p>  | <p>Number Used: _____ Type of Fixture: _____ Timer: <input type="checkbox"/> Yes <input type="checkbox"/> No</p> | <p>Watts per Lamp: _____ Task: _____</p> |

Note: In many cases, you will need to consult the building engineer.

| | |
|----------------------------|--|
| <p>Signed by Auditors:</p> | |
| <p>Audit Date:</p> | |

Credit: Educational Dividends



Eco-Schools USA Energy Audit

HVAC AUDIT FORM

| | |
|---|--|
| Room Number or Location: | |
| Purpose: | |
| Side of Building (North, South East, West): | |
| Was there a thermostat in the room that could be adjusted by occupants? | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| If yes, what was the thermostat setting? | _____ °F |
| Temperature of room? | _____ °F |
| Was the room comfortable? | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| If no, was it too hot, too cold, and/or drafty? | <input type="checkbox"/> Too Hot <input type="checkbox"/> Too Cold <input type="checkbox"/> Drafty |
| Was any water dripping? | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| If yes, from what location? <i>Note: Use the Water Audit from Eco-Schools USA for washrooms, kitchens, locker rooms, and other high water use areas.</i> | _____ |
| Maintenance Issues: <i>Note: Indicate any known maintenance issues. Talk to your facilities manager or building engineer about this.</i> | _____ _____ _____ _____ _____ |
| Additional Comments: | |
| Signed by Auditors: | |
| Audit Date: | |



Eco-Schools USA Energy Audit

HVAC AUDIT FORM

SYSTEM INFORMATION:

Heating:

What fuel source provides heat for the building?

- Natural Gas
- Electric
- Propane
- Solar
- Wind Power
- Biofuel
- Coal
- Other: _____

What equipment is used to deliver that heat?

- Hot Water Boiler
- Steam Boiler
- Forced Air Furnace
- Other: _____

What is the age of the equipment?

Equipment Age: _____

If boiler, are pipes insulated?

- Yes No

Describe (or attach) the maintenance schedule including cleaning coils and filters and maintaining motors and pumps:

Maintenance Schedule Description:

Ducts:

Does the building have ducts?

 Yes No

If yes, were you able to inspect the ducts?

 Yes No

If yes, were they insulated and sealed?

 Yes No

Describe (or attach) the maintenance schedule for checking the ducts:

Maintenance Schedule Description:

Cooling:

What equipment is used to cool the building?

Type**Model****Size**

Window Air Conditioners (indicate #)

Central Air Conditioner

Chiller

Geothermal

Describe (or attach) the maintenance schedule including cleaning coils and filters and maintaining motors and pumps:

Maintenance Schedule Description:

Temperature:

How is the temperature controlled in the building:

- Central Control
 Room Controls
 Room Controls with Programmable Thermostats

In the cold months, what is the thermostat setting during the day?

_____ °F

In the cold months, what is the thermostat setting during the night?

_____ °F

If there is air conditioning, what is the thermostat setting during the day?

_____ °F

If there is air conditioning, what is the thermostat setting during the night?

_____ °F

How often are the thermostats calibrated?

- Weekly Monthly Bi-Monthly
 Quarterly Semi-Annually Annually

Domestic Hot Water:

What equipment provides domestic hot water for the building?

| Equipment | Number | Size | Fuel Source | Brand/Model |
|----------------|--------|------|-------------|-------------|
| Boiler | | | | |
| Water Heater | | | | |
| Other _____ | | | | |

Describe (or attach) the maintenance schedule for the domestic hot water system:

Maintenance Schedule Description:

Note: For a complete water audit, please use the Eco-Schools USA Water Audit Forms

Additional Comments:

Signed by Auditors:

Audit Date:



Eco-Schools USA Energy Audit

EQUIPMENT AUDIT FORM

| | |
|--|--|
| Room Number or Location: | |
| Purpose: | |
| Side of Building (North, South East, West): | |

Using the choices below, check the type of equipment found in the room. Estimate the number of hours each piece of equipment is used per day.

Note the watts and amps which can be found on the face plate. For refrigerators, note the brand and model number.

| Equipment | Number (Quantity) | Hours Used Per Day | Watts | Amps |
|---|----------------------|-----------------------|-------|------|
| Computers | | | | |
| Printers | | | | |
| Copiers | | | | |
| Radio/Stereo | | | | |
| Television (Please note if it is a plasma screen.) | | | | |
| DVD Players | | | | |
| Coffee Pot | | | | |
| Microwave | | | | |
| Refrigerator Brand: _____ Model: _____ | | | | |
| Clock | | | | |
| Other (Please describe): _____ | | | | |
| Other (Please describe): _____ | | | | |

| | | | | |
|--|--|-------------|--|--|
| Other (Please describe): _____ | | | | |
| Other (Please describe): _____ | | | | |
| Total Wattage of Room: <i>NOTE: Complete this AFTER the audit.</i> | | _____ Watts | | |
| Note: In many cases, you will need to consult the building engineer. | | | | |
| Signed by Auditors: | | | | |
| Audit Date: | | | | |

Credit: Educational Dividends



Eco-Schools USA Energy Audit

DATA DRIVEN DECISIONS

Data Driven Decisions:

Keep track of the total number of rooms visited and the total number of each type of energy wasting behaviors reported. For example, the note takers should indicate how many rooms had “Lights On, But No One’s Home.”

It may be helpful to determine the percentages associated with each energy-wasting behavior. This would be done by dividing the total number of occurrences for each behavior by the total number of rooms visited. For example, if 60 rooms had “Lights On, But No One’s Home” and the school had 120 rooms, then $60 \div 120 = 50\%$.

Lighting:

Lifestyles:

Building Envelope:

HVAC:

Equipment:

Additional Comments:

Signed by Auditors:

Audit Date:

Credit: Educational Dividends



Eco-Schools USA Energy Audit

SYNOPSIS OF AUDIT RESULTS

The following form will help you to organize your thoughts and the data you collected.

We visited _____ (#) rooms on the _____ side of the _____ (1st, 2nd, etc.) floor.

Note: For large buildings, you may want to use a separate form for each floor and/or each side of the building.

Lighting:

We found _____ (#) of incandescent lamps. These should be replaced by compact fluorescent bulbs.

We found _____ (#) of T12 fluorescent lamps with magnetic / electronic ballasts. These should be replaced with T8 or T5 lamps with electronic ballasts.

Our exit lights were: _____ (Type: LED or Incandescent). There were _____ (#) of exit lights.

The lights in our gym were _____ (Type) and our outside lights were _____ (Type).
The outside lights were were not on a timer.

Daylighting Opportunities:

| |
|--|
| |
| |
| |
| |
| |

Other:

| |
|--|
| |
| |
| |

Lifestyles:

We found _____ (#) of rooms with lights left on when no one was in the room.

We found _____ (#) of rooms with equipment left on when no one was in the room.

We found _____ (#) of rooms with dripping water.

We found the following significant comfort issues:

| |
|--|
| |
| |
| |

We found the following maintenance issues:

| |
|--|
| |
| |
| |
| |
| |

Building Envelope:

We found _____ (#) of leaky windows that should be caulked.

We found _____ (#) of outside doors with gaps that should be weatherstripped.

We found _____ (#) of foundation cracks or gaps that should be fixed.

We found _____ (#) of outlet gaskets that should be insulated.

Other:

| |
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HVAC:

Comments about thermostat settings:

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Comments about overall comfort:

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|--|
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| |

Comments about maintenance schedules:

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|--|
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| |

Other:

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| |
| |

Equipment:

We found _____ % of non-EnergyStar®/inefficient equipment.

We found _____ (#) pieces of equipment left on unnecessarily.

Opportunities for timers:

| |
|--|
| |
| |
| |



Eco-Schools USA Water Audit



Learning Objectives

- To investigate water use within the school and identify inefficiency.
- To record and analyze water data.

Curriculum Links

English, Science, Geography, Citizenship

Eco-Schools USA Pathways

Water, School Grounds, Energy, Climate Change

Use this worksheet to help you to complete a Water Audit. You will use the data you collect to create your Water Action Plan.

This audit is adapted from the *Be Water Wise!* School Water Audit. It was developed by the National Environmental Education Foundation (NEEF) as a tool for students to investigate water use inside and outside of the school building and to work to improve water conservation at school. Many of the questions will require the assistance of school staff, including custodians and facility managers.

A Teacher's Guide for the audit is available at www.eeweek.org/water_wise/water_audit. Also available is a Report Outline, which you can use to develop a report of the findings to be presented to the school community.



Eco-Schools USA Water Audit Worksheet

School Name:

Date of Assessment:

Conducted By:

| | |
|--|--|
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| | |


A. Water Use

The questions in this section ask about water use at your school. To answer them, you may need the assistance of the school custodian or facility manager.

| | |
|--|---|
| What is the source of your school's water supply? | <input type="checkbox"/> School has own well <input type="checkbox"/> Municipal water supply |
| If your water comes from a municipal supply, what is its source? | <input type="checkbox"/> Lake or river (surface water) <input type="checkbox"/> Well (aquifer/groundwater) |
| If your water comes from a municipal supply, what did your school pay last year for water? | \$ _____ |
| How much does the water company charge per unit of water? | \$ _____ per _____ |
| Based on water bills or in-school meters, how much water did your school use last year? (1 cubic foot = 7.48 gallons; provide both) | _____ gallons _____ cubic feet |

| | |
|---|--|
| <p>If your drinking water comes from a private well, who does the water sampling?</p> | |
| <p>Is that person a certified operator?</p> | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| <p>If your drinking water comes from the school's private well, is it metered so that the amount used can be monitored?</p> | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| <p>Is your drinking water tested for chemical contaminants and bacteria?</p> <p>Chemical Contaminants Bacteria</p> | <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No |
| <p>What contaminants are sampled for? List them to the right.</p> | |
| <p>Does your water contain fluoride?</p> | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| <p>If no, does your school have a fluoride rinse or tablet program?</p> | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| <p>Is all ice used for consumption made only from drinking water?</p> | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| <p>Where does water used in your school go?</p> | <input type="checkbox"/> On-site septic system and drainage field <input type="checkbox"/> Municipal sewer system. Name: _____ |

| | |
|---|---|
| Does your school have a plan to deal with chemical spills that may travel down floor drains into the public sewerage system? | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Does your school have a program to encourage frequent hand washing? | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Does your school have time built into the schedule for washing hands prior to food consumption? | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Does your school maintain adequate supplies for hand washing? | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| On average, how much water do the school's toilets use per flush? | <input type="checkbox"/> >3 gallons <input type="checkbox"/> 2-3 gallons <input type="checkbox"/> 1-2 gallons <input type="checkbox"/> <1 gallon |
| How many hot water heaters does your school have? | _____ Number |
| What type(s) of energy is used to heat the school's hot water? | <input type="checkbox"/> Natural gas <input type="checkbox"/> Propane <input type="checkbox"/> Electricity Other: _____ |
| Are there any booster heaters located near appliances that use a lot of hot water? | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Does your school have any "on demand" hot water systems (in which water is heated as it is being used, rather than stored hot)? | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| If yes, where are they located? | |

| | |
|---|--|
| <p>Are there any re-circulation pumps for rooms that are located a long distance from the water heater?</p> | <p><input type="checkbox"/> Yes <input type="checkbox"/> No</p> |
| <p>Does your school have a swimming pool?</p> | <p><input type="checkbox"/> Yes <input type="checkbox"/> No</p> |
| <p>If you answered yes, is a pool cover used? (Important because pool covers limit evaporation)</p> | <p><input type="checkbox"/> Yes <input type="checkbox"/> No</p> |
| <p>Does your school have a cooling tower?</p> <p><i>Cooling Towers are usually found outside or on the roof next to the Chiller (HVAC) Room. Cooling towers extract heat from water that has been used to cool the building. This is an example of what a cooling tower may look like.</i></p>  | <p><input type="checkbox"/> Yes <input type="checkbox"/> No</p> |

The School Building Audit

Complete the chart on the following page as you investigate water-using devices throughout the school building. Add rows if needed in order to collect information on all the rooms in your school building.

- On the chart, write the number of each device found at each location.
- After that number, indicate the number that are leaking in parentheses. Example: If bathroom 1 has 10 faucets and two are leaking, write 10(2).
- For each leak you identify, calculate the amount of water wasted per unit time. Time how long it takes for a set volume of water to drip into a beaker, and then calculate how much water is wasted per day due to the leak.



Eco-Schools USA School Grounds Audit (Outdoor Water Use)

In this section you will collect data about outdoor water use on the school property. Again, you may need the assistance of the custodian or facility manager. Many of these questions will be most easily answered shortly after watering. Plan to collect this data soon after the sprinklers have stopped.

How many water faucets are located outside of the school building?

_____ Number

How many outdoor water faucets are leaking?

_____ Number

How many outdoor faucets have been secured so that only school staff may turn them on or off?

_____ Number

Does your school building have gutters and/or downspouts?

Yes No

Does your school have a rain collection system (such as rain barrels)?

Yes No

How many water meters are there at the school?

Water meters measure and record the amount of water flowing through them at any moment. They may be found buried outside the building or indoors where the water line comes into the building.

_____ Number

Do the meters record water used both indoors and outdoors?

Yes No

If yes, what do you think is the ratio of water used outdoors vs. water used indoors?

| | |
|--|--|
| <p>Do you see dry or soggy patches in the grass, in flowerbeds or in other landscaped areas?</p> | <p><input type="checkbox"/> Yes <input type="checkbox"/> No</p> |
| <p>If yes, describe the location and what you see. Take photographs or sketch the area.</p> | |
| <p>Do you see puddles or standing water resulting from irrigation runoff?</p> | <p><input type="checkbox"/> Yes <input type="checkbox"/> No</p> |
| <p>If yes, describe the location and what you see.</p> | |
| <p>Do you see moss growing or slippery-wet spots on any paved areas?</p> | <p><input type="checkbox"/> Yes <input type="checkbox"/> No</p> |
| <p>If yes, describe the location and what you see. Take photographs or sketch the area.</p> | |
| <p>Do you see cracks in the pavement, uneven sidewalks where water runs off or other water damage in the pavement or parking lots?</p> | <p><input type="checkbox"/> Yes <input type="checkbox"/> No</p> |
| <p>If yes, describe the location and what you see. Take photographs or sketch the area.</p> | |
| <p>Do you see lots of weeds in the landscape?</p> | <p><input type="checkbox"/> Yes <input type="checkbox"/> No</p> |
| <p>If yes, describe the location and what you see. Take photographs or sketch the area.</p> | |
| <p>Are there slopes in the landscape?</p> | <p><input type="checkbox"/> Yes <input type="checkbox"/> No</p> |

| | |
|---|---|
| <p>If yes, complete the following: Describe the location and what you see. Take photographs or sketch the area.</p> | |
| <p>Do you see dirt running off the landscape due to slopes?</p> | <p><input type="checkbox"/> Yes <input type="checkbox"/> No</p> |
| <p>Does school staff use hoses to wash sidewalks and parking areas?</p> | <p><input type="checkbox"/> Yes <input type="checkbox"/> No</p> |
| <p>Where does water that runs off the school's roof, parking lots and grounds go?</p> | <p><input type="checkbox"/> Storm Drain <input type="checkbox"/> Recessed grassy areas <input type="checkbox"/> Rain Garden <input type="checkbox"/> Retention pond <input type="checkbox"/> Drainage ditch <input type="checkbox"/> Natural pond, stream or wetland</p> |
| <p>Does your school have a plan for managing and reducing runoff from school grounds?</p> | <p><input type="checkbox"/> Yes <input type="checkbox"/> No</p> |
| <p>Does your school have any outdoor fountains or artificial waterfalls?</p> | <p><input type="checkbox"/> Yes <input type="checkbox"/> No</p> |
| <p>If yes, answer the following: Are they turned off in the evening? Are they turned off in very hot weather? Do they re-circulate water? Who maintains them?</p> | <p><input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Yes <input type="checkbox"/> No _____</p> |
| <p>Curriculum and Community</p> | |
| <p>Is water conservation part of your school's curriculum?</p> | <p><input type="checkbox"/> Yes <input type="checkbox"/> No</p> |
| <p>If yes, in what grade(s) is it taught?</p> | <p>_____ _____ _____ _____</p> |

| | |
|--|---|
| <p>Has your school staff recently participated in any staff development programs for water education?</p> | <p><input type="checkbox"/> Yes <input type="checkbox"/> No</p> |
| <p>Does your school participate in any water projects that benefit the community?</p> | <p><input type="checkbox"/> Yes <input type="checkbox"/> No</p> |
| <p>If yes, what are they?</p> | <p>_____</p> <p>_____</p> <p>_____</p> <p>_____</p> |
| <p>Some water management facilities can be used as educational resources. Which are found in your community?</p> <p>Pumping station</p> <p>Drinking water treatment plant</p> <p>Water tower</p> <p>Wastewater treatment plant</p> | <p><input type="checkbox"/> Yes <input type="checkbox"/> No Location: _____</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No Location: _____</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No Location: _____</p> <p><input type="checkbox"/> Yes <input type="checkbox"/> No Location: _____</p> |



Eco-Schools USA Green Hour Audit



Learning Objectives

- To assess the current amount of time staff and students spend outside (“Green Hours”) both during and after school.
- To collect and record data about outdoor time.

Curriculum Links

Mathematics, Science, Social Studies, Citizenship, Physical Education

Eco-Schools USA Pathways

Green Hour, School Grounds, Global Dimensions

School _____ Date _____ Time _____

Names of Reviewers _____

Use this worksheet to help you prepare a Green Hour Action Plan.

Step 1: Have students and teachers answer the questions below. If your school population is *more* than 500 students go to at least 50% of your school’s classrooms and answer the questions below.

Step 2: After you complete the Classroom Assessment, complete the School Assessment.



Eco-Schools USA Green Hour Classroom Assessment Worksheet

| | |
|--------------------------------------|---------------------|
| Classroom #: | Teacher: |
| Grade Level: | Subject: |
| Total # in Class (Students & Staff): | Date of Assessment: |

Estimate how many hours per week students and staff spend outside doing school-related activities:

Outdoor Recess: _____ hrs.

Outdoor physical education: _____ hrs.

Walking to/from school: _____ hrs.

Classes outside: _____ hrs.

Outdoor field trips (zoo, nature center, etc): _____ hrs.

Outdoor sports practice: _____ hrs.

After-school outdoor activities (school-sponsored, not sports teams): _____ hrs.

Additional time spent working in the schoolyard habitat or taking care of the school's gardens: _____ hrs.

Other (please describe, in addition to # of hrs.): _____ hrs.

| |
|--|
| |
| |
| |
| |

Estimate how many hours per week students and staff spend outside when they are not at school:

Dog walking: _____ hrs.

Outside jobs: _____ hrs.

Playground time: _____ hrs.

Park time: _____ hrs.

Yard work: _____ hrs.

Walking to do errands: _____ hrs.

Family walks: _____ hrs.

Hanging out in the backyard/neighborhood: _____ hrs

After-school outdoor activities/sports (not school-sponsored): _____ hrs.

Other (please describe, in addition to # of hrs.): _____ hrs.

| |
|--|
| |
| |
| |
| |



Eco-Schools USA Green Hour School Assessment

Step 1: Have each classroom in your school complete the Green Hour Classroom Assessment Worksheet

Step 2: Total all of the classroom assessments from Step 1 for #1 and #2 in this section.

Calculate the average amount of time per week students and staff spend outside doing school-related activities:

Outdoor Recess: _____ hrs.

Outdoor physical education: _____ hrs.

Walking to/from school: _____ hrs.

Classes outside: _____ hrs.

Outdoor field trips (zoo, nature center, etc): _____ hrs.

Outdoor sports practice: _____ hrs.

After-school outdoor activities (school-sponsored, not sports teams): _____ hrs.

Additional time spent working in the schoolyard habitat or taking care of the school's gardens (planting, weeding and watering): _____ hrs.

Other (please describe, in addition to hrs.): _____ hrs.

| |
|--|
| |
| |
| |
| |

2. Calculate the average amount of time per week students and staff spend outside doing when they are not at school:

Dog walking: _____ hrs.

Outside jobs: _____ hrs.

Playground time: _____ hrs.

Park time: _____ hrs.

After-school outdoor activities/sports (not school-sponsored): _____ hrs.

Yard work: _____ hrs.

Walking to do errands: _____ hrs.

Family walks: _____ hrs.

Hanging out in the backyard/neighborhood: _____ hrs.

Other (please describe, in addition to # of hrs.): _____ hrs.

| |
|--|
| |
| |
| |
| |

How many classes does your school offer that have an outdoor component of the curriculum?

Please list:

| |
|--|
| |
| |
| |
| |
| |
| |

| | |
|---|--|
| Does your school have a student-monitored garden on school property? | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Does your school have outdoor space that is suitable for holding class outdoors? | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| How many school-sponsored outdoor field trips does your school host per year? | _____ |
| Has the school implemented wellness policies that address nutrition and physical activity? | <input type="checkbox"/> Yes <input type="checkbox"/> No |
| Does the school have a walk/bike to school program? | <input type="checkbox"/> Yes <input type="checkbox"/> No |



Eco-Schools USA School Grounds Audit



Learning Objectives

- To investigate school grounds use and identify ways to green the space.
- To record and analyze school grounds data.

Curriculum Links

English, Science, Mathematics, Geography, Citizenship

Eco-Schools USA Pathways

School Grounds, Water, Energy, Climate Change, Green Hour

The sample School Grounds Audit was developed as a tool for students to investigate school ground use and to be used as a basis for improving the habitat at school. Many of the questions will require the assistance of school staff, including facility managers.

A full Schoolyard Habitat How-To Guide is available at <http://www.nwf.org/schoolyard/howtoguide.cfm>

Eco-Schools USA School Grounds Audit

Does the school contain all four wildlife habitat requirements (food, water, shelter, places to raise young?)

Yes No

Are the school grounds free from herbicides or pesticides?

Yes No

Are there plenty of things for climbing and balancing on, and jumping and swinging from?

Yes No

Are there quiet, shaded places to sit and talk?

Yes No

| | | |
|--|------------------------------|-----------------------------|
| Are there lots of different surfaces and materials to feel, touch and explore? | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| Are there murals, mosaics or other artworks? | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| Are there games painted on the playground? | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| Does the school have a pond or a marshy area? | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| Does the school have a log pile? | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| Does the school have a meadow? | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| Does the school have a hedgerow or shrubs? | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| Does the school have trees? | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| Does the school have bird boxes? | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| Does the school have a bird feeding station? | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| Are the school grounds used for learning and teaching? | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| Are native plants used in the school grounds? | <input type="checkbox"/> Yes | <input type="checkbox"/> No |
| Do the school grounds utilize drip irrigation? | <input type="checkbox"/> Yes | <input type="checkbox"/> No |



Eco-Schools USA Consumption and Waste Audit



Learning Objectives

- To investigate categories of school waste.
- To learn sampling techniques to monitor waste volume.
- To record and analyze waste data.

Curriculum Links

Mathematics, Science, Citizenship

Eco-Schools USA Pathways

Consumption and Waste, Energy, Climate Change, Global Dimensions

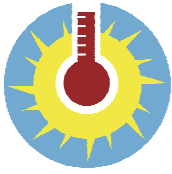
The aim of the waste audit is to measure the weight and types of waste produced by your school in one day. It is an integral part of a school waste reduction campaign. Waste is collected, sorted and weighed by students, teachers and other helpers. The data collected will help you measure the effectiveness of your campaign. The audit should be carried out prior to the implementation of a school action plan to reduce waste and again afterward, in order to measure the reduction levels achieved.

This waste audit is adapted from www.recyclenow.org.



Eco-Schools USA Waste Audit School Total Worksheet

| Material | School Total (lbs) per day | School Total (lbs) per week (x 5 days) | School Total (lbs) per year (x 38 weeks) | % |
|----------------------|---------------------------------------|---|---|-------------|
| White paper | | | | |
| Colored paper | | | | |
| Cardboard | | | | |
| Plastics | | | | |
| Metal | | | | |
| Glass | | | | |
| Food waste | | | | |
| Other | | | | |
| TOTAL | | | | 100% |



Eco-Schools USA Climate Change Audit



Learning Objectives

- To have students quantify their own carbon footprints.
- To quantify the school's carbon footprint.
- To identify ways that students can reduce both their own footprint and their school's.
- To design and conduct an action project related to carbon emissions

Curriculum Links

Mathematics, Science, Social Studies, Government, Economics

Eco-Schools USA Pathways

Climate Change, Energy, Transportation, Water, Consumption and Waste

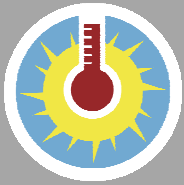
“Carbon footprint” is an expression that describes how much carbon dioxide a person (or entity such as a school) releases over time. Assessing your school's carbon footprint is a way to measure the impact your school's activities and behaviors have on the environment. The more energy, paper, and other supplies your school uses, the bigger your school's footprint or impact.

There are many different calculator tools available to help you measure your carbon footprint. These calculators can be very simple or very complex. Here is one way you could approach it.

- 1) **Personal Footprints.** To begin the process, have students use the calculator at [Meet the Greens \(www.meetthegreens.org/features/carbon-calculator.html\)](http://www.meetthegreens.org/features/carbon-calculator.html) to determine their personal carbon footprint. When students have their results, review their footprint scores as a class and discuss which activities emit the most and least carbon. Have students think about specific actions they could take to reduce their own footprints.
- 2) **School Footprint.** Follow with a carbon audit of your school using the EPA's [Climate Change Emission Calculator Kit \(Climate Check\)\(www.epa.gov/climatechange/wycd/school.html\)](http://www.epa.gov/climatechange/wycd/school.html). This calculator helps students to learn about climate change, estimate their school's greenhouse gas emissions and conceptualize ways to mitigate their footprint. The EPA also provides schools across the nation an opportunity to compare energy use through their Portfolio Manager. For additional carbon calculators, check out the [Resources](#) for this Pathway.



Also, check out NWF's [Climate Classroom.org](http://ClimateClassroom.org) and the *An Inconvenient Truth* curriculum you'll find there. It includes lesson plans for exploring the science of the carbon cycle and investigating sources of carbon in students' daily lives.



Eco-Schools USA Climate Change Worksheet (Simple)

MeetTheGreens.org is a new kids' guide to looking after the planet. Kids can watch THE GREENS' cartoon adventures and discover related green games, news, downloads, action tips, links, and much more. This innovative, Web-only project comes from WGBH in Boston, the producer of shows like ZOOM, ARTHUR, Frontline and NOVA. The link for their individual carbon calculator is <http://www.meetthegreens.org/features/carbon-calculator.html>

Gather the data asked for below before logging your data online. The activity that accompanies this exercise can be found at www.climateclassroom.org

Transportation:

Transportation measures the GHG impacts of your car, public bus, school bus, and airplane travel and the amount of land converted to road areas as a result of your travel.

| HOW DO YOU GET TO SCHOOL <i>(more than one can be checked)</i> | YES | NO |
|---|-----|----|
| Car | | |
| City bus | | |
| School bus | | |
| I walk or bike to school | | |
| Have you flown in a plane in the last month? Yes no | | |
| Do your parents ride their bikes to work? | | |

What you eat:

The food section measures the amount of CO₂, land, and water required to grow and transport the food you eat, as well as the amount of waste generated by eating in fast food restaurants or bringing your lunch to school in a disposable bag every day.

| What Kind of Food Does Your Family Eat? | Just Vegetables (Vegan) | | Eggs and Dairy (Vegetarian) | | Everything | |
|---|----------------------------|-------------|--------------------------------|--------------|--------------|--------------|
| | | | | | | |
| How often do you eat at a fast food restaurant? | Never | Once a Week | Twice a Week | More Often | | |
| How much soda do you drink? | 0 Cups a Day | 1 Cup a Day | 2 Cups a Day | 3 Cups a Day | 4 Cups a Day | 5 Cups a Day |
| Do you bring your lunch in a bag or lunch box? | Yes | | | No | | |
| | | | | | | |

Home & School:

Calculates the CO₂ emissions from the energy you use to heat your home and provide you with hot water. It also measures the amount of land your building currently occupies, the amount of water your lifestyle requires, and the waste from your paper use.

| | | | | | | |
|---|---------------|--------------|-------------------|-------------------|--------------------------|------|
| What type of home do you live in? | Apartment | | | House | | |
| How many people live in your home? | One | Two | Three | Four | Five | More |
| Do you have a summer house? | Yes | | | No | | |
| Do you have a lawn? | Yes | | | No | | |
| How often do you shower? | Twice per day | Once per day | Once every 2 days | Once every 3 days | Don't believe in showers | |
| How many loads of laundry do your parents do each week? | One | Two | Three | Four | Five | More |
| What type of clothes washer do you use? | Top Loading | | | Front Loading | | |
| Do your parents dry your laundry outside? | Yes | | | No | | |
| Do you brush your teeth once or twice a day? | Once | | | Twice | | |
| Do you leave the tap on when brushing your teeth? | Yes | | | No | | |
| Do you own a swimming pool? | Yes | | | No | | |

What you use?

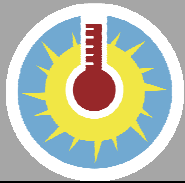
This category measures the CO2 emissions from the energy used to run appliances in your home - fridges, stoves, dishwashers, washers, dryers, computers, cell phones, TV's, DVD's, and VCRs. It also measures the environmental impact of your newspapers and magazines.

| Do You Have These Things? | Yes | No |
|---|-------------|--------------|
| Cell phone(s) | | |
| TV(s) | | |
| DVD Players | | |
| computers | | |
| washing machine | | |
| dishwasher | | |
| refrigerators | | |
| Do you turn off the lights when you leave a room? | | |
| What do your light bulbs look like? | Fluorescent | Incandescent |
| Do your parents get a newspaper? | | |
| Do your parents get a magazine? | | |

What you throw away?

This category measures the land required to dispose of your household garbage and the volume of GHGs released. It also includes some "wasteful" activities - such as leaving lights on when - and calculates the environmental impact from these activities.

| How many bags of garbage do your parents throw out each week? | 2 Bags | 4 Bags | 6 Bags | 8 Bags | 10 Bags | More |
|--|--------|--------|--------|--------|---------|------|
| Do you recycle? | Yes | | | no | | |
| Do you compost? | Yes | | | no | | |
| Do you turn your computer off and not just put it to sleep when you're not using it? | Yes | | | no | | |



Eco-Schools USA Climate Change Worksheet (More Complex)

A more comprehensive, school-oriented carbon footprint calculator can be found at EPA's Climate Change Emission Calculator Kit (Climate Check) website. (www.epa.gov/climatechange/wycd/school.html). This calculator helps students to learn about climate change, estimate their school's greenhouse gas emissions and conceptualize ways to mitigate their footprint. The EPA also provides schools across the nation an opportunity to compare energy use through their Portfolio Manager. A Microsoft Excel spreadsheet and accompanying student manual can be found at this link. A sample of the data needed is shown below.

Gather the data needed before logging your data online.

Stationary Devices

The following stationary devices are used in our school (use the table to the right for the device types, fuel types, and units used in the kit.

| DEVICE TYPE |
|-------------|
| Boiler |
| Heater |
| Generator |
| Other |

| FUEL TYPES | UNITS |
|-------------|-------------|
| Coal | Metric Tons |
| Natural Gas | Cubic Feet |
| Propane | Liters |
| Gasoline | Liters |
| Diesel Fuel | Liters |
| Fuel Oil | Liters |
| Kerosene | Liters |

| Device Name | Device Type | Type of Fuel | Units | Quantity of Fuel |
|-------------|-------------|--------------|-------|------------------|
| | | | | |
| | | | | |
| | | | | |

Electricity & Steam

| | |
|--|----------------------------|
| Our school's electricity supplier is: | Name: |
| The amount of electricity our school purchased during the inventory year was: | _____ kilowatt hours (kWh) |
| The amount of steam our school purchased during the inventory year was: <i>(Purchased steam can be reported in any one of the units listed to the right.)</i> | _____ Btu |
| | _____ lbs |
| | _____ cf |

| | |
|--|-------------------|
| The type and percent fuel mix used to produce this steam is: | Fuel Mix (%) |
| | _____ Coal |
| | _____ Natural Gas |
| | _____ Propane |
| | _____ Gasoline |
| | _____ Diesel Fuel |
| | _____ Fuel Oil |
| _____ Kerosene | |

Mobile

| | |
|---|----------------|
| The number of commuter vehicles at our school is: | _____ Vehicles |
|---|----------------|

| | |
|--|-------------|
| The average commuting distance of these vehicles is: | _____ Miles |
|--|-------------|

| | | |
|---|-------------------------|---------------|
| The fuel consumed by vehicles owned by our school is: | <u>GASOLINE:</u> | |
| | Cars | _____ Gallons |
| | Trucks, Vans, & SUVs | _____ Gallons |
| | Buses | _____ Gallons |
| | <u>DIESEL:</u> | |
| | Cars | _____ Gallons |
| | Trucks, Vans, & SUVs | _____ Gallons |
| | Buses | _____ Gallons |

Waste

| | |
|--|-----------------|
| The total amount of waste our school sent to landfill during the inventory year was: | _____ kilograms |
|--|-----------------|

| | | |
|---|----------------------|--|
| Or: The volume of each dumpster and number of times our school sent waste to the landfill during the inventory year: | <u>Volume</u> | <u># of Times Dumpster is Emptied Each Year</u> |
| | _____ cubic meters | _____ times |
| | _____ cubic meters | _____ times |

| | |
|--|------------------------------------|
| Or: The average individual's annual waste disposal and the percent disposed at our school is: | _____ kg/year |
| | _____ percent (disposed at school) |

| | |
|---|--|
| Does the landfill practice methane flaring? | <input type="checkbox"/> Yes <input type="checkbox"/> No |
|---|--|

Wastewater

| | |
|---|--|
| The amount of wastewater treated from our school is: | _____ gallons |
| Does the wastewater treatment plant practice methane flaring? | <input type="checkbox"/> Yes <input type="checkbox"/> No |

REFRIGERATION & AC

| | | | | | |
|---|--------------------------|---------------------------|------------------|-------------------------|------------------|
| The type and amount of refrigeration and air conditioning units using HFC-134a and R-410a at our school is: | Type | # of units using HFC-134a | Charge Size (kg) | # of units using R-410A | Charge Size (kg) |
| | Refrigerated Appliances | | | | |
| | Air Conditioning | | | | |
| | Window Units | | | | |
| | Small Commercial Unitary | | | | |
| | Large Commercial Unitary | | | | |
| | Packaged Terminal A/C | | | | |

| The type of vehicle and percent use of the following vehicles per year at our school: | | | |
|---|--------------------------|---------------|-----------------|
| | Type | # of Vehicles | Vehicle Use (%) |
| | Cars | | |
| | Trucks/SUVs | | |
| | Buses in School District | | |

Land Management

| | | | |
|---|-----------|---------------------|---|
| Fertilizer: The type and amount of fertilizer applied in one year and the nitrogen content of these fertilizers is: | Type | Amount Applied (kg) | Synthetic Fertilizer Nitrogen Content (%) |
| | Synthetic | | |
| | Organic | | |
| | Manure | | |

| | |
|--|-------------------------|
| Non-Road: The type and amount of fuel consumed by non-road equipment (i.e., backhoes, lawnmowers, tractors, leaf blowers, and chain saws). | Gasoline: _____ gallons |
| | Diesel: _____ gallons |

