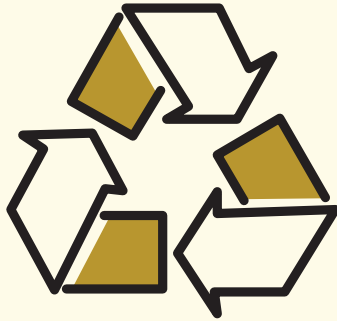




WWF
STARTER
KIT

MALAYSIA

2019



WASTE

Eco-Schools Programme
Starter Kit



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WHAT IS ECO-SCHOOLS STARTER KIT?

The Starter Kit is a handbook for both students and teachers which provides them with a series of ideas to organise and carry out Action Plans and activities related to the ten Eco-Schools themes. By using the starter kit as a guide, students will be able to combine creativity and problem-solving elements to engage their school community in protecting the environment.

Remember, this starter kit is just a guideline! We encourage students to come up with their own initiatives and ideas based on the Seven Steps Methodology and Eco-Themes.

The Seven Steps Methodology will also help your school to implement the eco-projects smoothly.



WASTE

Examine the impact of waste on the environment and explore actions to minimise the amount of waste that we produce and dispose on daily basis.

DEFINITIONS

Problem(s) :

The environmental issue(s) your school is facing.
(Ex: To reduce 10% of the water bill by July 2019)

Goal :

The problem(s) which you want to solve at your school. (Ex: To increase awareness)

Target Audience :

A group of individuals/people specifically identified to carry out certain activities.
(Ex: Eco-committee/canteen operator/gardener)

Measure of Success :

Methods to determine the success of the activities.
(Ex: Measurement using water bill/electricity bill)

Collaborators :

Individuals/organisations/city councils that you may want to work with to achieve your goal.
(Ex: Engage with an environmental NGO (Non-Governmental Organisation) to present water conservation to students & teachers)

Resource Streams :

Source of funding to run your activities.
(Ex: Fundraising/In-kind donation)

Cost :

The estimated amount of money needed to carry out the entire activity.

SUGGESTED ACTIVITIES FOR WASTE

To achieve Sustainable Development Goals (SDGs) 11 and 12.



For more info,
please visit sustainabledevelopment.un.org/?menu=1300
For additional resources on the SDGs,
check out worldslargestlesson.globalgoals.org/

DIFFICULTY: ★☆☆

REDUCE TRASH

SUGGESTED ACTIVITIES:



1. Invite expert speakers to give talks or demonstration on waste management.



2. Organising poster competition on waste management for awareness purposes.



3. Monthly recognition of the 'Less Trash Class' and 'Eco-Student' of the month.

DID YOU KNOW?

The average Malaysian throws away 1.64kg of waste daily, compared to the worldwide average of 1.2kg.

All the contents above are only suggestions

02

HOW CAN WE DO IT?

Problem(s)?

To reduce trash on the school compound.

Goal?

50% trash reduction within three months.

Target Audience?

Students.

Measure of Success?

Reduction of rubbish collected in school compound (Ex: 100 kg of rubbish reduced to 50 kg).

Collaborators?

None.

Resource Streams?

School fund.

Cost?

<RM100

TOGETHER, WE CAN MAKE A CHANGE!

All the contents above are only suggestions

03

DIFFICULTY: ★☆☆

REDUCE PAPER

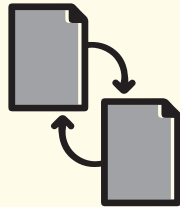
HOW TO ENCOURAGE REDUCING PAPER USAGE?

1. Setting school rules, such as using scratch paper and always use both side of the paper.
2. Organise interclass competition on the amount of paper discarded.
3. Get the schools' procurement/management to use only FSC* certified paper.
4. Creating artwork using scratch/used paper instead of new paper.



ORGANISE RECYCLED PAPER MAKING WORKSHOP

1. To encourage the students to appreciate paper by learning the paper manufacturing process through the workshop.



2. To use the papers that was made at the workshop.

DID YOU KNOW?

14% of all global wood harvest is used to make paper and paper accounts for 25% of landfill waste and 33% of municipal waste.

*Forest Stewardship Council (FSC), an international non-profit organisation that promotes responsible management of the world's forests.

All the contents above are only suggestions

04

HOW CAN WE DO IT?

Problem(s)?

Not many students and teachers are aware of recycling.

Goal?

To reduce paper wastage. Students and teachers will recycle more paper.

Target Audience?

Students, teachers and non-teaching staff.

Measure of Success?

Observations and surveys.

Collaborators?

Environment oriented teams/Clubs.

Resource Streams?

Parent-Teacher Association (PTA).

Cost?

>RM300

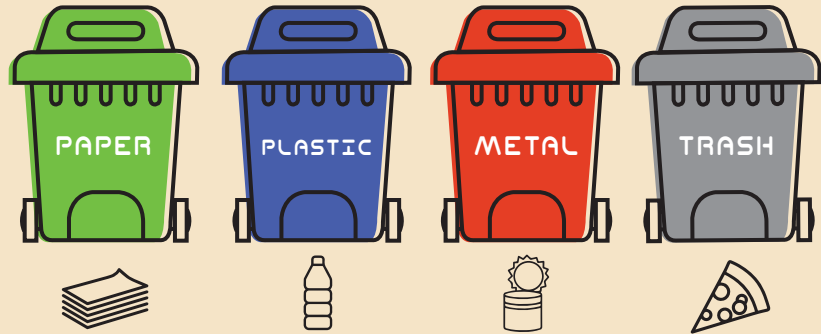
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All the contents above are only suggestions

05

DIFFICULTY: ★☆☆

RECYCLE



Put recycling bins with CLEAR labels around the school compound. Then, make an announcement during school assembly about the presence of the recycle bins and the importance of waste separation.

Tips:

It is not necessary to buy new recycling bins, schools can reuse the existing rubbish bin/container as the recycling bins.

DID YOU KNOW?

Malaysians generate about 38,000 tonnes of waste per day.

HOW CAN WE DO IT?

Problem(s)?

Reduce recyclable waste to go into landfill.

Goal?

To educate the school community to separate waste in school compound.

Target Audience?

Students, teachers, non-teaching staff, gardeners and canteen operators and even external guests!

Measure of Success?

Increase in the % of separation of waste.

Collaborators?

Parents.

Resource Streams?

Donation from the school community.

Cost?

RM100-RM300

DIFFICULTY: ★★☆☆

UPCYCLING PROJECT

SUGGESTED ACTIVITIES:



1. Invite upcycling expert(s) to give a talk/demonstration.



2. Attend the expert's workshop together.



3. Then, organise school-wide activities (ie. hands-on workshop) based on the knowledge gained during the workshop.

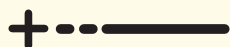


4. Organise an upcycling competition and exhibits the artworks during school events/competition.



RECYCLING VS UPCYCLING

Recycling is producing a new consumer product by breaking the consumer materials down, while upcycling is creating something of higher quality without destroying it.



All the contents above are only suggestions

08



HOW CAN WE DO IT?



Problem(s)?

To encourage people to reuse recyclable materials and manage their waste.

Goal?

Enhance innovation and creativity among students to reuse old materials and increase their participation.

Target Audience?

Students, parents and surrounding community.

Measure of Success?

Involvement of students and parents in upcycling activities.

Collaborators?

Parents and other schools/tertiary institutions.

Resource Streams?

Parent-Teacher Association (PTA), NGOs and nearby schools.

Cost?

>RM300



All the contents above are only suggestions

09

DIFFICULTY: ★★☆☆

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Cost?

>RM300



All the contents above are only suggestions

DIFFICULTY: ★★☆☆

SCHOOLS ADOPT GREEN PRACTICES DURING EVENTS



For example, when your school organises events such as bazaar, fun fair or sports day, encourage committee to:

1. Use minimal packaging, avoid single use plastics and styrofoams.
2. Encourage them to place waste separation bins.
3. Educate participants on the zero waste process (Ex: Collect food waste).

Ideas:

- Use only recycle bags to pack merchandise/things.
 - Use only reusable cutlery and reusable straws.
- These ideas are to influence and give alternatives to school when organising events.

HOW CAN WE DO IT?

Problem(s)?
Post school events produce a lot of waste, such as single use plastic, paper plates, banners etc..

Goal?
To reduce the wastes produced in those events.

Target Audience?
Teachers, non-teaching staff and students.

Measure of Success?
Observe waste produced in post school events.

Collaborators?
Organiser of the events.

Resource Streams?
None.

Cost?

<RM100

DIFFICULTY: ★★ ★

FOOD WASTE ACTIVITIES

SUGGESTED ACTIVITIES:



1. Invite experts to give talk on food waste management and also demonstrate hands-on activities.



2. Organise a compost workshop for the students to learn the process and benefits through the hands-on activities.



3. Use the compost produced from the workshop as the fertilizer in the garden. You may add more food waste and soil to increase the compost later. Maybe can name the garden as 'Compost Garden'.

DID YOU KNOW?

The KLCC towers can be filled with the amount of avoidable food waste generated by Malaysians in just 18 days.

All the contents above are only suggestions

12

HOW CAN WE DO IT?

Problem(s)?

Many teachers & students simply throw their food waste away in the trash bin.

Goal?

Students and teachers work with canteen operator to start composting using food waste collected from canteen.

Target Audience?

Teachers, non-teaching staff and students.

Measure of Success?

Increase in the amount of compost and reduction of food waste thrown away in the bin.

Collaborators?

Environmental oriented teams/clubs, people who are experts in making compost and nearby schools.

Resource Streams?

Parent-Teacher Association (PTA), environmental oriented clubs, local council and relevant NGOs.

Cost?

>RM300

All the contents above are only suggestions

13

DIFFICULTY: ★★ ★

CAMPAIGN & CHALLENGE

ORGANISE A WASTE MANAGEMENT WEEK

In this week:

- Encourage students to use less plastics and straws.
- Teachers can explain how to differentiate the waste into respective recycling bins in every class before the class starts.
- Add two more bins, which are 'Repair' and 'Rot' beside the recycling bins for wastes that can be repaired or compost.



DID YOU KNOW?

Every tonne of paper that is recycled saves 17 trees, 1750 litres of oil, and saves 5 yards of landfill space.

HOW CAN WE DO IT?

Problem(s)?

Lack of awareness among students and the communities on the importance of waste management.

Goal?

Reduction of food waste & recyclable waste.

Target Audience?

School and communities.

Measure of Success?

Reduction of waste in trash bin.

Collaborators?

"NGOs, Parent-Teacher Association (PTA), local government authorities, local communities, companies.

Resource Streams?

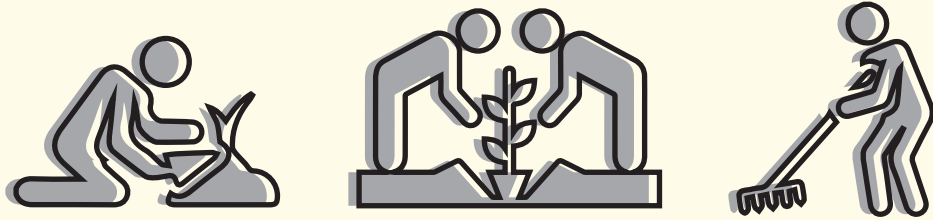
Parent-Teacher Association (PTA), school fund and local council.

Cost?

>RM300

DIFFICULTY: ★★ ★

ZERO WASTE CAMP



Ideas:

- Composting Project
- Upcycling Project
- Waste Separation & Recycling Project

WHAT ARE THE BENEFITS OF GOING ZERO WASTE LIFESTYLE?

To keep waste out of the landfill, incinerators, rivers and oceans. This also helps to reduce production of harmful greenhouse gases.

All the contents above are only suggestions

16

HOW CAN WE DO IT?

Problem(s)?

Many teachers and students don't know how to manage their wastes in their daily lives.

Goal?

Participant practices minimal to zero waste initiative in their daily lives.

Target Audience?

School community and surrounding community.

Measure of Success?

Increase in zero waste practices and reduction of waste produced by the school and surrounding community.

Collaborators?

NGOs, nearby eco-schools, environmental oriented team/clubs, local council.

Resource Streams?

Parent-Teacher Association (PTA), participants, relevant NGOs and local council.

Cost?

>RM300

All the contents above are only suggestions

17

QUICK FACTS

Landfills and incinerators are dangerous. Every bag thrown out to the landfills & incinerators contributes to:



POLLUTION OF SURROUNDING SOIL, AIR, AND WATER

>50%

of typical municipal garbage set out at the curb is compostable.

16.76 MILLION TONS OF WASTE

Household waste (70%) and commercial waste (30%) is expected to be generated by nearly 30 million Malaysians in the year 2020.



CLIMATE CHANGE



HEALTH HAZARDS TO HUMANS & ANIMALS

THEREFORE, WE SHOULD MINIMISE OUR DAILY WASTE.

We throw away

7.2 MILLION

tonnes of food every year, & more than half of them are perfectly edible.



Meanwhile,

1 IN 7 PEOPLE

across the world doesn't have enough food to eat.

The main component of the generated waste are :

45%

FOODS WASTE



30%

potentially recyclable materials such as paper, plastic, aluminum and glass, 12.1% diapers.

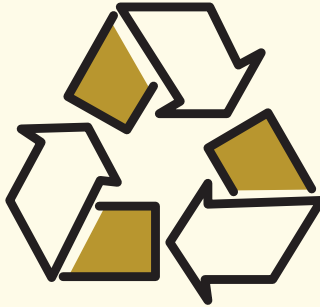


Humans now buy a million plastic bottles a minute, and most of these plastics end up in the ocean.

The ocean will contain more plastics by weight compared to fish by 2050.



ON PLANET EARTH,
THERE IS NO 'AWAY.'
'AWAY' IS HERE.



LET US STOP CREATING
WASTE AND LANDFILLS.

REDUCE

REUSE

RECYCLE

