

# LOVE NATURE PROGRAMME

## Low Carbon Living: Love Nature- Opportunities for Values Education in English Language Education

### **Disclaimer**

*To enhance the teaching content, teachers can exercise their professional judgment and consult relevant scholarly work when adopting the learning and teaching resources prepared by educators and other teachers. In support of the implementation of the English Language Education KLA Curriculum, teachers can also select appropriate parts of the resources for classroom learning or extended learning based on pedagogical consideration and the learning needs of students.*

**Lok Sin Tong Leung Kau Kui Primary School**

**Presenter: Ryan Murphy**

## Background

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Lok Sin Tong Leung Kau Kui Primary School is a large school with 25 classes located in Tin Shui Wai.

2023-2024 was the first year of the Low Carbon Living programme.

The programme was initiated through the enthusiastic support of the AT, who brought many ideas to co-planning sessions.





# Today's Overview

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- Objectives
  - Rationale and Process
  - Our English-rich Environment
  - P1-P3 Low Carbon Living (at home)
  - P1-P3 Low Carbon Living (outside home)
  - P4-P6 Low Carbon Living (at home)
  - P4-P6 Low Carbon Living (outside home)
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## Programme Objectives

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- To promote the adoption of a low carbon living lifestyle in school and at home
- To promote environmental awareness
- To link low carbon lifestyles with values education

## Presentation Objectives

To share ideas and resources to help participants create their own low carbon living programme in a fun and interactive way

# Rationale

- Low carbon living is about fighting climate change by saving resources and reducing emissions of greenhouse gases.
- By reducing our carbon footprint, we also lower our exposure to harmful chemicals and pollutants.
- But how exactly can we live more sustainably? Beyond turning off lights, recycling paper and plastics, there's still a lot more we can do!

# Process of Development

- The school leadership team raised 'Low Carbon Living' as an area of development.
- The NET and the AT had three co-planning sessions to design a school-wide programme.
- Resources were shared and ideas were generated.
- A 'Low Carbon Living' Calendar for May 2024 was prepared.
- The programme was presented at a school-based workshop during implementation.

# Creating an English-rich Environment

## Low Carbon Living 4Rs

### Reduce

1. Reduce the use of tissue paper.
2. Reduce disposable eating utensils.
3. Buy only what you really need.
4. 'Bring your own bag' while shopping.

### Reuse

1. Use both sides of the paper.
2. Reuse envelopes & scrap paper.
3. Reuse plastic bags, utensils & containers.
4. Reuse wrapping paper & gift boxes.

### Replace

1. Buy returnable bottled drinks.
2. Store food in boxes instead of using plastic wrapping films.
3. Choose reusable containers and products.

### Recycle

1. Recycle different items, such as:
  - Waste paper
  - Metals
  - Plastics
  - Glass bottles
  - Rechargeable batteries

# Creating an English-rich Environment

## Carbon Living

### Low

### Carbon Footprint

What is **Carbon Footprint** ?

It is the **total amount of greenhouse gases (including carbon dioxide and methane) that are generated by our actions.**

Try to lower individual carbon footprints by making **small changes to our actions!**

### Diet & Cooking

1. Buy local food products.
2. Eat more vegetables and fruits.
3. Cook with simple methods.

### Clothing

1. Use the sun as a dryer.
2. Donate unwanted clothes to charities.
3. Turn worn-out garments into rags and mats.

### Transport

1. Choose mass public transport such as trains and buses.
2. For shorter distances, enjoy a walk or ride a bicycle.

### At home

1. Choose appliances with higher energy efficiency.
2. Switch off appliances that are unused or in standby mode.

### Renewable Energy in Hong Kong

In Hong Kong, we have:

1. Solar Energy
2. Wind Energy
3. Waste-to-energy
4. Biofuel
5. Hydroelectric

Additional text on the board: ENERGY SAVING, SAVE THE PLANET!, SAVE THE WATER!

P1-P3

# Low Carbon Living (At Home)

Relevant visuals provided as examples of  
low carbon living at home

The students enjoyed watching the funny gifs during the assemblies.

They also learned the correct low carbon living phrases.

# Take a shower instead of a bath.



Picture illustrations

Picture illustrations

# Use the stairs instead of the lift.



Some picture  
illustrations

Some picture  
illustrations

The students learned about the PowerPoints during the assemblies and showed 1/2/or 3 fingers during the quiz, so everyone could participate.

Some picture  
illustrations

4. Turning off the tap when  
you are brushing your teeth

\_\_\_\_\_.

- i) saves water
- ii) saves food
- iii) saves books

Turning off the tap when you are  
brushing your teeth saves water.

# Low Carbon Living-Outside Home

Relevant visuals provided as examples of  
low carbon living outside home

Eat at a restaurant instead  
of getting takeaway.



Some picture  
illustrations



Some picture  
illustrations

# Bring your lunch from home.

Some picture illustrations

1. You should bring a water bottle to school to...

Some picture  
illustrations

- i) play with
- ii) reduce waste
- iii) be happy

Some picture  
illustrations

ii) You should bring a water bottle to school to reduce waste.

P4-P6

# Low Carbon Living (At Home)

Relevant visuals provided as examples of  
low carbon living at home

Turn off the lights when  
you leave a room.

Some picture  
illustrations

Shower for less than  
5 minutes to save water.

Some picture  
illustrations

2. You should buy used clothes to

\_\_\_\_\_.

Some picture  
illustrations

i) reduce waste

ii) save money

iii) reduce waste and save money

Some picture illustrations

iii) You should buy used clothes to reduce waste and save money.

# Low Carbon Living (Outside Home)

Relevant visuals provided as examples of  
low carbon living outside home

Walk or ride a bicycle to school.

Some picture illustrations

Only buy food without  
plastic packaging.

Some picture  
illustrations

1. You should \_\_\_\_\_ to school.

i) take a taxi

ii) take a helicopter

iii) walk

Some picture  
illustrations

Some picture  
illustrations

iii) You should walk to school.

Climate Action Superhero



Name: \_\_\_\_\_ ( )

Class: P

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

**Name and draw a picture of your Climate Action Superhero and write 5 ways that they help the planet.**

**My Climate Action Superheroes' name is**

\_\_\_\_\_.

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_
5. \_\_\_\_\_



# The Climate Action Superhero Activity

Lok Sin Tong Leung Kau Kui Primary School - Low Carbon Living Challenge P1-P3 (May 2024)



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

Class: \_\_\_\_\_



SUN	MON	TUE	WED	THU	FRI	SAT
Please write about one low carbon activity you do every day.			1 _____	2 _____	3 _____	4 _____
			_____	_____	_____	_____
5 _____	6 _____	7 _____	8 _____	9 _____	10 _____	11 _____
_____	_____	_____	_____	_____	_____	_____
12 _____	13 _____	14 _____	15 _____	16 _____	17 _____	18 _____
_____	_____	_____	_____	_____	_____	_____

P1-3 Low Carbon Living Calendar



P1-3 Low Carbon Living Calendar with illustrations

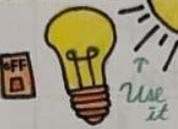
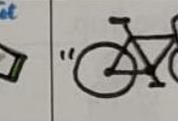
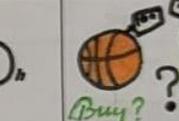
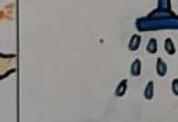
Lok Sin Tong Leung Kau Kui Primary School-Low Carbon Living Challenge P1-P3 (May 2024)



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

Class: \_\_\_\_\_



SUN	MON	TUE	WED	THU	FRI	SAT
Please write about one low carbon activity you do every day.			 1 I turn off the lights at home.	 2 I go to school on foot.	 3 I bring a bottle of water to school.	 4 I use my own cutlery in the restaurant.
 5 I give my old clothes away.	 6 I turn off the fans.	 7 I turn off the TV.	 8 I eat vegetables.	 9 Hand washing clothes.	 10 I ride a bicycle.	 11 I rethink before buying new toys.
 12 I eat fruits.	 13 I bring my lunch.	 14 I take a shower.	 15 I use the reusable bag.	 16 I plant the potted plants at home.	 17 I use the stairs.	 18 I put the rubbish in the recycling bin.

A sample of student calendar from LST Leung Kau Kui Primary School

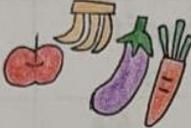
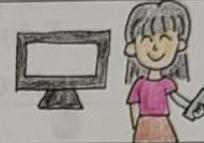
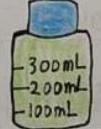
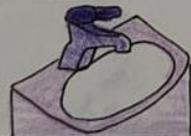
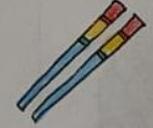
Lok Sin Tong Leung Kau Kui Primary School - Low Carbon Living Challenge P1-P3 (May 2024)



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

Class: \_\_\_\_\_



SUN	MON	TUE	WED	THU	FRI	SAT
<p>Please write about one low carbon activity you do every day.</p>			 <p>1 I eat the fruit and vegetables.</p>	 <p>2 I turn off the TV.</p>	 <p>3 I turn off the fan.</p>	 <p>4 I take a shower.</p>
			 <p>5 I shop with a reusable bag.</p>	 <p>6 I walk to school.</p>	 <p>7 I bring cutlery.</p>	 <p>8 I bring my water bottle.</p>
 <p>12 I ride a bicycle.</p>	 <p>13 I avoid using plastic.</p>	 <p>14 I turn off the tap.</p>	 <p>15 I bring chopsticks.</p>	 <p>16 I turn off the lights.</p>	 <p>17 I shower for less than 5 minutes.</p>	 <p>18 I buy used toys.</p>

A sample student calendar from LST Leung Kau Kui Primary School

Excellent!

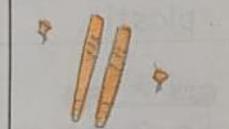
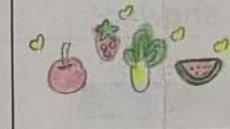
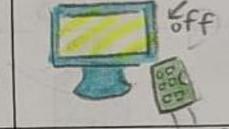
Lok Sin Tong Leung Kau Kui Primary School - Low Carbon Living Challenge P1-P3 (May 2024)



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

Class: \_\_\_\_\_



SUN	MON	TUE	WED	THU	FRI	SAT
Please write about one low carbon activity you do every day.						
			1 I take a shower. ✓	2 I walk to school. ✓	3 I bring my water bottle. ✓	4 I turn off the tap. ✓
						
5 I avoid using plastic. ✓	6 I bring cutlery. ✓	7 I bring chopsticks. ✓	8 I eat fruit and vegetables. ✓	9 I turn off the lights. ✓	10 I turn off the TV. ✓	11 I shop with a reusable bag. ✓
						
12 I turn off the fan. ✓	13 I eat in a restaurant. ✓	14 I use the stairs. ✓	15 I give my old clothes away. ✓	16 I buy used toys. ✓	17 I buy used clothes. ✓	18 I shower for less than 5 minutes. ✓

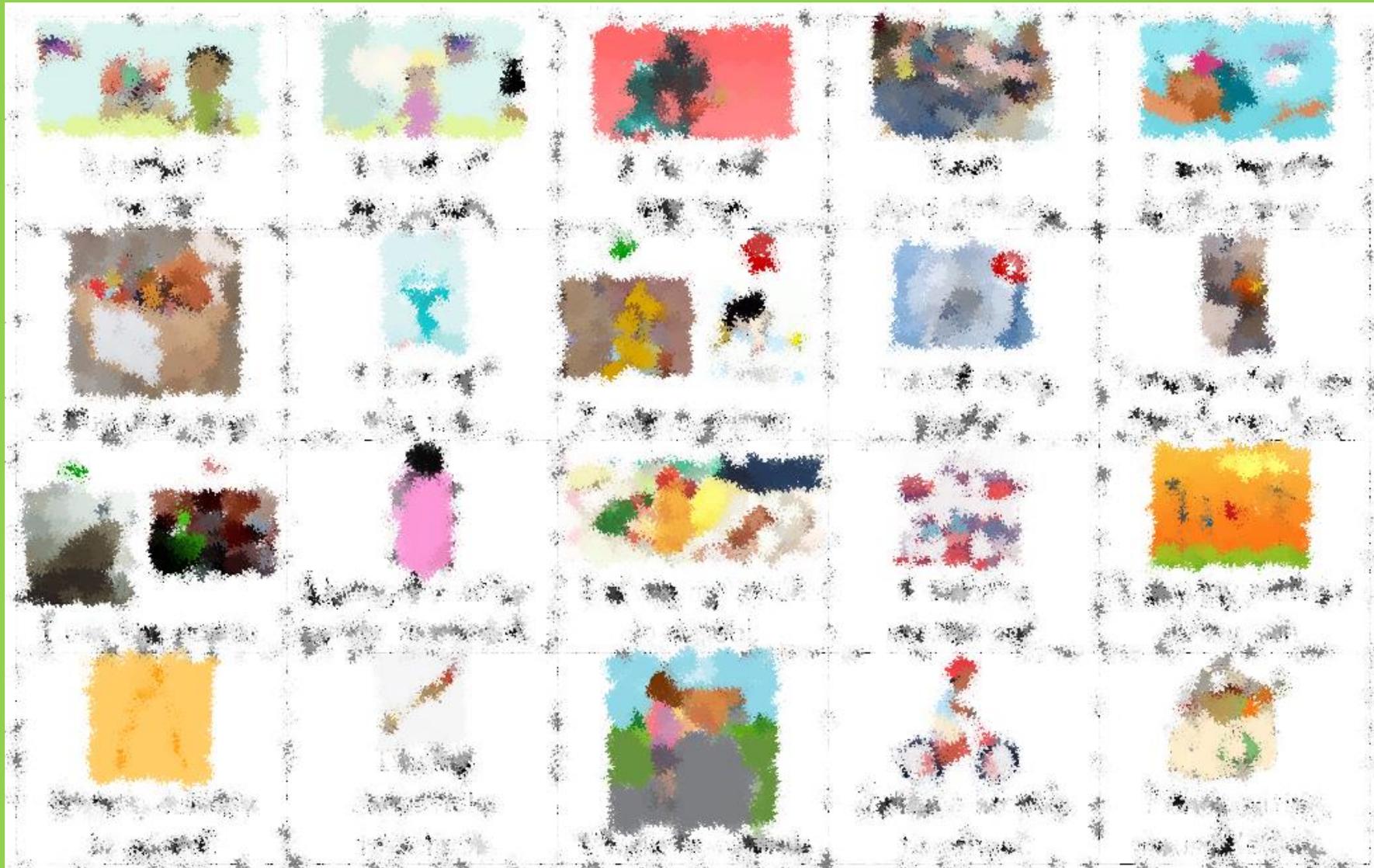
A sample student calendar from LST Leung Kau Kui Primary School

Lok Sin Tong Leung Kau Kui Primary School - Low Carbon Living Challenge P4-P6 (May 2024)

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

SUN	MON	TUE	WED	THU	FRI	SAT
Please write about one low carbon activity you do every day.			1 _____ _____ _____	2 _____ _____ _____	3 _____ _____ _____	4 _____ _____ _____
5 _____ _____ _____	6 _____ _____ _____	7 _____ _____ _____	8 _____ _____ _____	9 _____ _____ _____	10 _____ _____ _____	11 _____ _____ _____
12 _____ _____ _____	13 _____ _____ _____	14 _____ _____ _____	15 _____ _____ _____	16 _____ _____ _____	17 _____ _____ _____	18 _____ _____ _____
19 _____ _____ _____	20 _____ _____ _____	21 _____ _____ _____	22 _____ _____ _____	23 _____ _____ _____	24 _____ _____ _____	25 _____ _____ _____
26 _____ _____ _____	27 _____ _____ _____	28 _____ _____ _____	29 _____ _____ _____	30 _____ _____ _____	31 _____ _____ _____	

P4-6 Low Carbon Living Calendar



P4-6 Low Carbon Living Calendar with illustrations

In our Christmas school newsletter, I reviewed low carbon living tasks inside the home and outside the home.



# LKK GAZETTE



12/2023- VOLUME 15



## Low Carbon Living

Low carbon living means fighting climate change by saving resources and reducing emissions of greenhouse gases.



### What are some things you can do to live a low carbon lifestyle at home?

1. Turn off the lights when you leave the room.
2. Turn off the TV when you leave the room.
3. Use the stairs instead of the lift.
4. Buy used clothes.
5. Grow your own herbs and vegetables.
6. Take a shower instead of a bath.
7. Take cold showers in the summer.
8. Avoid using plastic cutlery, plates, or cups.



### What are some things you can do to live a low carbon lifestyle outside of your home?

1. Walk or ride a bicycle to school, if possible.
2. Bring a reusable water bottle to school.
3. Buy only what you need.
4. Only buy food without plastic packaging.
5. Bring your own reusable bags while shopping.
6. Eat at a restaurant instead of getting takeaway.
7. Bring your lunch to school.
8. Use both sides of paper.



I also created a quiz with a QR code, which links to a video explaining the answers

# LOW CARBON LIVING



## QUIZ

(answers)



1. When you leave the room, you should \_\_\_\_\_.



- a) buy used clothes
- b) turn off the lights
- c) dance



2. You should take a shower instead of a bath to \_\_\_\_\_.



- a) use less water
- b) use more water
- c) use a lot of water



3. To save electricity, you should \_\_\_\_\_.



- a) run as fast as you can
- b) use the lift instead of the stairs
- c) use the stairs instead of the lift



4. If you are asked if you need a bag while shopping, you should say \_\_\_\_\_.



- a) "Yes, please!"
- b) "How are you?"
- c) "No, thank you. I brought my bag."



5. If you bring a reusable water bottle to school you will \_\_\_\_\_.



- a) save money and reduce waste
- b) be thirsty
- c) be sad



6. You should eat at a restaurant instead of getting takeaway to \_\_\_\_\_.



- a) save money
- b) save time
- c) reduce waste



In the Term 2 school newsletter, I taught the students about the 4R's.



# LKK GAZETTE





## 6/2024- VOLUME 16

### Low Carbon Living

The Four 'R's, Reduce, Reuse, Recycle, and Replace will help us to have low-carbon lifestyles and positively impact the environment around us.




**Reduce**




**Reduce** is the first 'R.' It tells us to use less. Using fewer resources means creating less waste. This means buying fewer things and searching for alternatives that will lead to less waste. Some examples include choosing a digital receipt instead of a paper one, selecting unpackaged fruit and vegetables at the supermarket, turning off the lights when you leave the room and turning off the tap when you are brushing your teeth.





**Reuse**





**Reuse** is the second 'R.' It encourages us to find a way to get more use from our items. Reusing items helps us to save money and reduce waste. Donating items like clothes and toys reduces overall waste. You can also repurpose an item such as a ladder by turning it into a bookshelf. Old clothes can become cleaning rags, glass food jars can hold sauces made for school lunches, and glass containers can become plant pots.




**Recycle**








**Recycle** is the third 'R.' It motivates us to transform items that we use on a daily basis such as paper, plastic, glass, and metal into new products. We reduce the need for new supplies, save energy, and reduce greenhouse gases. Recycling also prevents items from ending up in landfills where they can take many years to decompose.





**Replace**





**Replace** is the fourth 'R.' It is important for people to use good quality products instead of bad quality products. For example, good quality cutlery replaces plastic cutlery and using energy from wind replaces energy from fossil fuels. Reusable products and containers.








I also created a quiz with a QR code to help them review their answers.

# THE 4 'R'S QUIZ

REDUCING, REUSING, RECYCLING, REPLACING



(answers)

1. Choose a digital receipt instead of a paper one.



- a) reducing
- b) reusing
- c) recycling

2. Donate clothes and toys to others.



- a) replacing
- b) recycling
- c) reusing

3. Transform items that we use into new products.



- a) replacing
- b) recycling
- c) reusing

4. Use good quality products instead of poor quality products.



- a) reducing
- b) recycling
- c) replacing

5. Turn old clothes into cleaning rags.



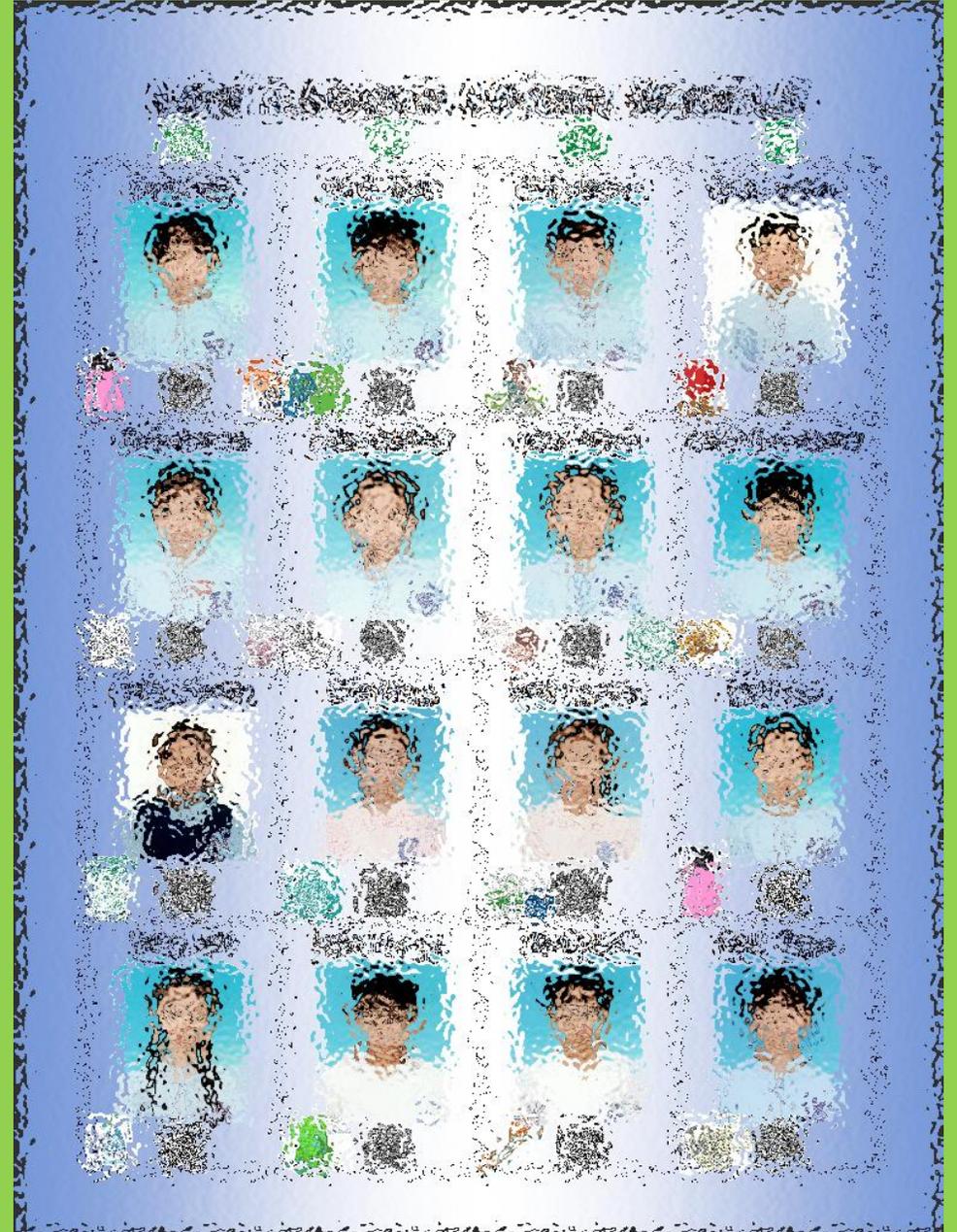
- a) reusing
- b) recycling
- c) replacing

6. Turn off the lights when you leave a room.



- a) reducing
- b) reusing
- c) recycling

I asked the students to video record things they did for their own low carbon living lifestyles and created links to the videos via QR codes.





## Reflection

- Students and teachers gained more **awareness** and **knowledge** about living a 'low carbon' lifestyle.
- Students and teachers developed a stronger **understanding** of how to live in a more environmentally-aware way.
- The community as a whole learned how to incorporate priority values and low carbon living actions into their lives.
- The programme was a success, so in the next academic year, the Low Carbon Living Month will continue and new resources will be developed.

# Links to Values Education

There are numerous links to values education.

These values include -

1. Sustainability
2. Responsibility
3. Perseverance
4. Commitment
5. Integrity
6. Benevolence
7. Diligence
8. Empathy



# Sustainability

For any new school programme to be a success -

1. there must be **strong stakeholder commitment**, not just from the leaders, but everyone.
2. **incentives and accountability systems** are needed to support the programme to completion.
3. the programme was rolled out across the school and **supported in a variety of ways**.
4. there need to be **the right people with the right skills and attitudes** to implement the programme.



Lok Sin Tong Leung Kau Kui Primary School - Low Carbon Living Challenge P1-P3 (May 2024)



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

Class: \_\_\_\_\_



SUN	MON	TUE	WED	THU	FRI	SAT
Please write about one low carbon activity you do every day.			1 _____	2 _____	3 _____	4 _____
			_____	_____	_____	_____
5 _____	6 _____	7 _____	8 _____	9 _____	10 _____	11 _____
_____	_____	_____	_____	_____	_____	_____
12 _____	13 _____	14 _____	15 _____	16 _____	17 _____	18 _____
_____	_____	_____	_____	_____	_____	_____

A Low Carbon Living Takeaway