

**HAPPY EARTH, HAPPY LIFE!**

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# CONTENT AND LANGUAGE INTEGRATED LEARNING (CLIL)



## 單元簡介

- 實施年級(Grade Level) : Grade 6
- 單元名稱(Name of the Unit) : Unit 1: Happy Earth, Happy Life!
- 總節數(Length of the Unit) : 4
- 設計者(Lesson Designer) : Darcy and Grace

# 學習重點

## 學習表現

英◎2-III-9 能以正確的發音及適切的語調說出簡易句型的句子。

英◎6-III-2 樂於參與課堂中各類練習活動，不畏犯錯。

綜3d-III-1 實踐環境友善行動，珍惜生態資源與環境。

## 學習內容

英◎Ad-III-2 簡易、常用的句型結構

英\*◎Ae-III-2 繪本故事、兒童短劇

綜Cd-III-2 人類對環境及生態資源的影響。

綜Cd-III-4 珍惜生態資源與環境保護情懷的展現。

# UNIT OVERVIEW

## 本單元設計理念 (Unit Overview: Rationale and Philosophy)

The unit aims in cultivating students' environmental awareness and encourages them to come up with interesting ideas that help our planet to be sustainable. We start the unit with a story book introducing our planet. After learning planetary facts about our Earth, we take a deeper look at human activities occurring around the globe. At this stage, we reveal types of pollution including water, land and air and ask students to contemplate on these situations. Since we only have one Earth, it's high time that we examine ourselves and try to clean up the mess we've created. As a CLIL lesson unfolds, the learning materials will cover basic vocabulary and sentence structures with adequate drilling to assist students in expressing their thoughts about the issue on hand.

Nowadays, there are new technologies and companies fighting for sustainability and conservation all over the world. We target three inventions but focus on Seabin Technologies as a starting point for their product, the Seabin, and its functions. By learning about the machine, it provides students with some ideas on how to construct an environmentally friendly machine for their final project.

To conclude, students will gain knowledge of our planet and produce an environment cleaning machine poster as a group. Using the language provided by teachers, groups will present to their peers (pitch the idea) and put their poster on the wall. To wrap-up, we will facilitate a gallery walk and provide all students with sticky notes where they can write feedback on at least 3 posters. After the feedback activity we will conclude the unit with reading some of the comments.

## UNIT OVERVIEW OUTLINE

- The unit aims in cultivating students' environmental awareness and encourages them to come up with interesting ideas that help our planet to be sustainable.
- story book/ planetary facts/ human activities
- types of pollution including water, land and air and ask students to contemplate on these situations.
- As a CLIL lesson unfolds, the learning materials will cover basic vocabulary and sentence structures with adequate drilling to assist students in expressing their thoughts about the issue on hand.
- new technologies and companies fighting for sustainability
- Seabin Technologies, Smog free tower, I Driverplus sweeper
- To conclude, students produce an environment cleaning machine poster as a group.
- Gallery Walk / Sticky Notes

# LEARNING GOALS

## Content Goal

Students can acknowledge the unique essence of our planet Earth.

Students can understand types of pollution.

Students can come up with creative ideas/ products that aim at helping our environment.

## Language Goal

Students can answer questions raised by the teachers.

Students can express their ideas/concepts for their machine.

Purposefully use sentence patterns for producing a final project.

單元架構

L1 Story

*EARTH! MY  
FIRST 4.54  
BILLION YEARS*

L2  
Pollution

Cleaning  
Machines

L3  
Brainstorm

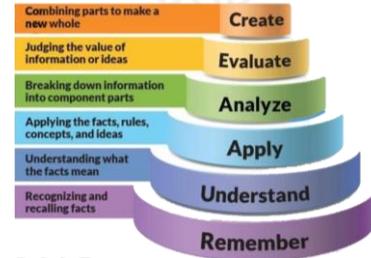
Creative  
Group Work

L4  
Production

Poster Present

# Coyle's 4 C's in CLIL Design

- **Cognition**-thinking- Bloom's taxonomy
- **Communication**-Language - Coyle's triptych & BICS vs. CALP
- **Culture**-awareness of self and 'otherness'
- **Content**- subject matter, themes, cross-curricular approaches
  - Scaffolding- increase understanding



# LI OUTLINE

- Intro
- Story book (open-ended questions)
- Anchor activity packet

STACY MCANULTY Illustrated by DAVID LITCHFIELD

# EARTH!



MY FIRST 4.54  
BILLION YEARS

作者 Stacy Mcanulty  
繪者 David Litchfield

Hello! My  
name is  
Earth.



the blue  
marble.

You can call me  
Planet Awesome.



I was born 4.54 billion years ago.



I don't remember what  
It took me a long  
told I was a hot mess.  
time to grow up.



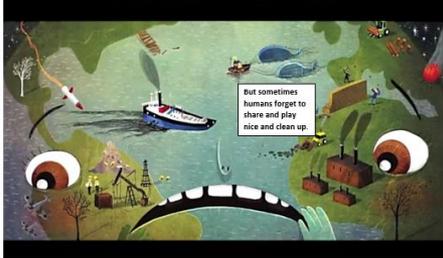
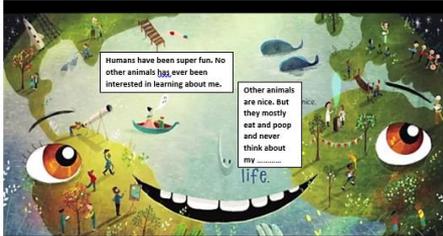




But sometimes  
humans forget  
to share and  
play nice and  
clean up.

# ANCHOR ACTIVITY PACKET

## Happy Earth, Happy Life



own words

### word bank

\*key words

English	Chinese	English	Chinese	English	Chinese
*Earth		*machine		solve	
billion		*project		*cause	
human		ocean		powered	
*pollution		streets		*problem	
smog		collects		future	
dirty		*electricity		*idea	
sketch		trash		~	
~		~		~	
~		~		~	

### sentence bank

<u>Lesson 1</u>	Q. What <b>type of pollution</b> is it? A. It's _____ pollution.
	Q. What is the <b>problem</b> ? A. The problem is _____.
<u>Lesson 2</u>	Q. This is our <b>idea</b> _____ (machine) _____.
	Q. It <b>helps with</b> _____ (type of pollution) _____.
<u>Lesson 3</u>	Q. It <b>collects</b> the (problem) _____ from the (water, land or air) _____.
	Q. It is <b>powered</b> by (type of energy) _____.



### Sketch for cleaning machine



- 請每位組員依照分發的污染源，創意發想出一台控制污染的機器草圖。
- 完成後，每人有一分鐘與同組組員介紹機器。
- 最後由設計師整合大家的想法與草圖，繪圖師畫在大張海報紙上。
- 請記得為機器標上power動能 collect收集處 in入口 out出口。

### Machines that clean

air pollution	streets	ocean
trash	collects	smog

1. What does the **Seabin** help with?

It helps with \_\_\_\_\_ . It \_\_\_\_\_ from the \_\_\_\_\_.

2. What does the **Smog free tower** help with?

It helps with \_\_\_\_\_ . It \_\_\_\_\_ from the \_\_\_\_\_.

3. What does the **IDriver sweeper** help with?

It helps with \_\_\_\_\_ . It \_\_\_\_\_ from the \_\_\_\_\_.

### Story questions

pollution	Earth
4.54 billion	humans

1. What is the name of our planet? Its name is \_\_\_\_\_.

2. How old is our planet? It is \_\_\_\_\_ years old.

3. Why was our planet happy? It's happy because \_\_\_\_\_ are fun.

4. Why is our planet sad? It is sad because of \_\_\_\_\_.

5. What did you learn from this lesson? \_\_\_\_\_.

\_\_\_\_\_.

## L2 OUTLINE

- Review story / types of pollution
- Invention ideas
- Sentence Patterns
- Sketch (name)

Help Earth

***INVENTIONS AND***

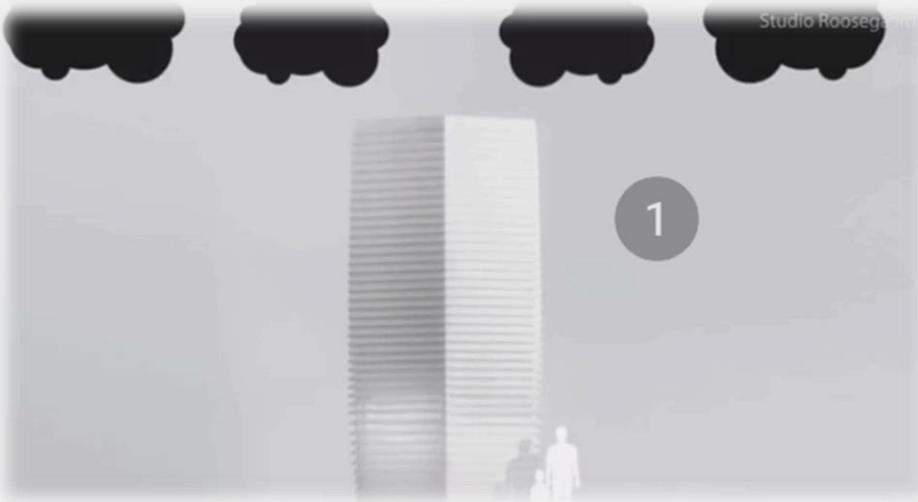
***IDEAS!***

***發明與想法***



# SMOG FREE TOWER

Europe



This is our idea Smog Free Tower.

It helps with air pollution.

It collects smog from the air.

It is powered by green electricity.

Smog goes **in** from the **top** and clean air goes **out** from the **bottom**.

# SEA BIN

The  
USA



This is our idea Sea bin.  
It helps with water pollution.  
It collects trash from the ocean.  
It is powered by electricity.

Trash goes **in** from the **top** and clean water goes **out** from the **bottom**.

# IDRIVERPLUS SWEEPER

China



This is our idea Idriverplus sweeper.

It helps with land pollution.

It collects trash from the streets.

It is powered by electricity.

Trash goes in from the bottom and trash goes out from the back when full.

## L3 OUTLINE

- Review machines
- Demonstration
- Group work

## TEACHER DEMONSTRATION 成品示範



This is our idea Ocean spider Mark

It helps with water pollution

It collects the trash from the ocean.

It is powered by wind energy.

Air pollution

water pollution

# GUIDING PROCESS 引導歷程

collects trash



Sketch for cleaning machine



1. 請每位組員依照分配的汙染源，創意發想出一台控制汙染的機器草圖。
2. 完成後，每人有一分鐘與同組組員介紹機器。
3. 最後由設計師整合大家的想法與草圖，繪圖師畫在大張海報紙上。
4. 請記得為機器標上 **power** 動能 **collect** 收集處 **in** 入口 **out** 出口。

Land pollution

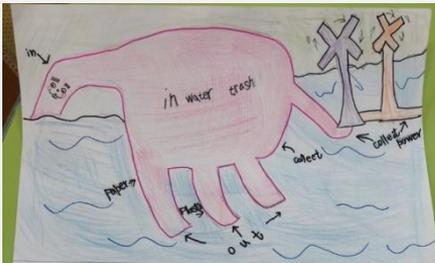
Taipei 101

MAT



## L4 OUTLINE

- Fruit salad (review types of pollution)
- Oral practice
- Presentation
- Gallery walk



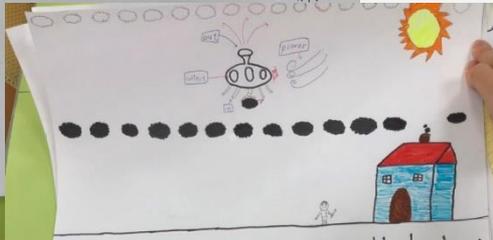
This is our idea Fat Elephant.  
 It helps with water pollution.  
 It collects the trash from the ocean.

It is  
 It can

# GROUP WORK 學生作品



This is our idea air I phone  
 It helps with air pollution.



This is our idea black cloud.  
 change white cloud.  
 It helps with air pollution.  
 It collects black cloud from the sky.  
 It is powered by wind.



This is our idea dat.  
 It helps with land pollution.  
 It collects the trash from the ground.  
 It is powered by wind.



This is our idea popcorn robot.  
 It helps with water pollution.  
 It collects the trash from the ocean.  
 It is powered by water energy.  
 food waste goes in and fish food comes out.

the top

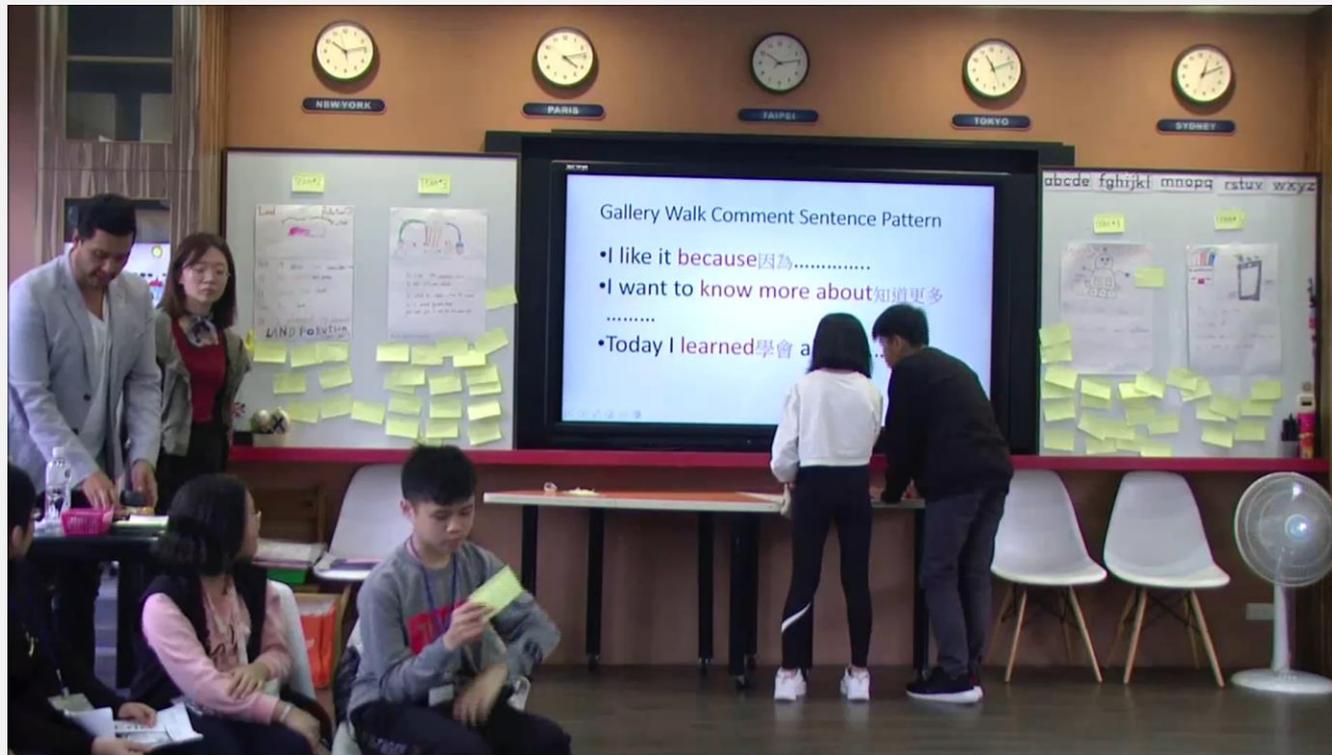
by Jean, Judy, Evelyn, Vanessa, Joanna

# STUDENT PRESENTATION 教學影片



- Production
- Authentic Communication
- Task-based group work

# GALLERY WALK 教學影片



- Cognitive aspect from 4Cs
- Guided Reflection
- Evaluating

# NEARPOD

- <https://nearpod.com/>



- Enter code: JIEBC



# REFERENCE

新北市英語教學資源中心  
New Taipei City English Education Resource Center

關於我們 最新動態 課程計畫 教學資源 新進申請 服務資訊 英語特展 英語競賽 人才推薦 活動公告

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教學資源

標題	單位	日期
新北市107年國、台、英語課程研討會簡章	新北市英語教學資源中心	2018/12/20
中小學英語教師專業發展計畫	新北市英語教學資源中心	2017/12/19
112年國語認證(國、台、粵)聽力測驗報名簡章	新北市英語教學資源中心	2017/12/12
評語訓練-英語教師10至15年級及國、台、粵(報名)	新北市英語教學資源中心	2017/09/21

- <https://englishcenter.ntpc.edu.tw/nss/s/main/OtherTeachingResources>

新北市英語教學資源中心  
New Taipei City English Education Resource Center

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One Day Trip for New Taipei City Native English Speaking Teachers of English Wonderland Program	新北市英語教學資源中心	2019/01/15

- <https://englishcenter.ntpc.edu.tw/nss/s/indexEnglish/index>

# FINAL REVIEW

	List Goals	Corresponding Lesson(s)	CLIL (4 C's)
內容目標 (Content Goals)	<ul style="list-style-type: none"> <li>➤ Students can acknowledge the unique essence of our planet Earth.</li> <li>➤ Students can understand/differentiate between types of pollution.</li> <li>➤ Current Inventions (in other societies) aiding in pollution control.</li> <li>➤ Students can come up with creative ideas/ products that aim at helping our environment.</li> </ul>	<p>Lesson 1</p> <p>Lesson 1-2</p> <p>Lesson 2</p> <p>Lesson 2-4</p>	<p>Content (scaffolding-storybook)</p> <p>Cognition (LOTS: understanding, remembering and applying) /Content/communication (LOL)</p> <p>Culture/Content</p> <p>Cognition (HOTS- creating)/ Communication (LFL-BICS)/ Content (help Earth) Culture (one's interpretation)</p>
語言目標 (Language Goals)	<ul style="list-style-type: none"> <li>➤ Students can answer questions raised by the teachers.</li> <li>➤ Students can express their ideas/concepts for their machine.</li> <li>➤ Sentence Patterns/vocabulary for producing final project.</li> <li>➤ Gallery walk feedback</li> </ul> <p><b><u>Sentence patterns</u></b></p> <ul style="list-style-type: none"> <li>• What types of pollution?</li> <li>• It's _____.</li> <li>• This is our <b>idea</b> _____</li> <li>• It <b>helps</b> with _____.(types of pollution)</li> <li>• It <b>collects</b> the _ from the ____</li> <li>• It is <b>powered by</b> _____.(types of energy)</li> </ul>	<p>Lesson 1-4</p> <p>Lesson 3-4</p> <p>Lesson 1-4</p> <p>Lesson 4</p> <p>Lesson 1-2</p> <p>Lesson 3-4</p>	<p>Communication (LFL)/ Cognition (HOTS-evaluating)</p> <p>Communication (LFL- CALPS)</p> <p>Communication (LOL, LFL) Cognition (HOTS-analyzing)</p> <p>Cognition (HOTS-evaluating) Communication (LTL)</p> <p>Communication: LOF-Key words/phrases LFL-investigate/collaborative LTL-presenting ideas</p>

