新北市111年度教師跨領域全英語授課教案設計 (參考範例-課程實施後)

	設計者 / 服務學校	蘇芳平、魏鈺螢、陳宜穗/鷺江國小			
	教案名稱	How Do You Go	o to School? 領域		英語跨自然領域
	教學年級:國小六年級		課程上使用之英語比例:90 % (本比例係指教師以英語授課之時間佔總授課時間之比率)		
	學生人數:28人		教學總節數:4節		公開授課內容為第4節
	公開授課之時間: 111年10月25日(二) 14時10分至15時00分 (第6節課)		公開授課之地點: 新北市蘆洲區鷺江國小 602教室		公開授課之教師: 姓名:蘇芳平、魏鈺螢 服務學校:鷺江國小 專長領域:英語
۲	D1 放贴家田的进名主法				

核心	總 綱	B1 符號運用與溝通表達
意養	領綱	英-E-B1 具備入門的聽、說、讀、寫英語文能力。在引導下,能運用所學、 字詞及句型進行簡易日常溝通。
學習重點	學習表現	英語: 1-III-6 能聽懂課堂中所學的字詞。 1-III-9 能聽懂簡易句型的句子。 2-III-2 能說出課堂中所學的字詞。 2-III-7 能作簡易的回答和描述。 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。 3-III-1 能辨識課堂中所學的字詞。 3-III-4 能看懂課堂中所學的句子。 3-III-7 能看懂繪本故事的主要內容。 6-III-2 樂於參與課堂中各類練習活動,不畏犯錯。 9-III-1 能夠將所學字詞做簡易歸類。 9-III-2 能將事件依故事的發展加以排序。 自然: Ah-III-2透過科學探究活動解決一部分生活週遭的問題。

	T						
	學習內容	英語: Ad-III-2 簡易、常用的句 Ae-III-2 繪本故事、兒童 B-III-2 國小階段所學字: D-III-1 所學字詞的簡易 自然: INg-III-7人類行為的改變	5 短劇。 詞及句型的生 歸類。		撃與影響。		
具體學習目標		1. 學生能認讀及拼寫本課單字: by bike、by boat、by bus、by car、by MRT/metro、by plane、by scooter、by taxi、by train、on foot 2. 學生能根據交通工具的速度、碳排放及花費進行分類或排序。 3. 學生能理解交通工具及污染的關係。 4. 學生能使用 Google Map 查詢交通資訊。 5. 學生能使用不同速度、碳排放及花費的交通工具進行路線規劃。 6. 學生能理解交通工具的優缺點之前提下,盡量選擇低碳的交通工具。 7. 學生能了解在無法避免搭乘高碳排的交通工具時能如何減低碳排放量。					
	- 11 + 11		是導致氣候變遷的原因。 利用會導致環境汙染與資源耗竭的問題。				
	教學資源/ 設備需求	課本、圖卡、學習單、小白板、交通工具小卡、電腦、投影機、教學 ppt、 繪本與討論 ppt、iPad、海報					
		各節	教學活動設定	;			
節次	教	學活動流程	時間	教學資源	教師語言		
第一節	 Slido 調查 進入 Slido 方式。 公布調查 以下句型 例如: (1) (人婁 by ca 	引起動機】 活動:每位學生用 iPad ,填答自己上學的交通 結果:教師引導學生用 描述統計結果。 (2) students go to school ar. at of the students go to	10分鐘	1. iPad 2. 圖卡 3. 課本 4. 教學 ppt 5. 小白板 6. 交通工具小 卡	 Please go to Slido and answer the question. Why do you go to school by car? Why do you go to school on foot? Let's check out the answers. We "ride" a bike/bicycle/ scooter/ motorcycle. We "drive" a car. We "take" a 		

school by _____.

bus/taxi/the

MRT.

(3) No one goes to school by

【發展活動】

- 3. 單字教學: by bike、by boat、by bus、by car、by MRT/metro、by plane、by scooter、by taxi、by train、on foot
- 4. 補充相關字彙: bicycle、motorcycle、ride、drive、take、walk、Taiwan High Speed Rail
- 交通工具比一比:各組將交通工具小卡依據下列三個項度做分類。
- (1) 各組將交通工具依照**速度**由慢到 快進行排列。

(句型: <u>The MRT</u> is faster than <u>a</u> <u>bus</u>. / <u>A bike</u> is slower than <u>a</u> scooter.)

(2) 各組將交通工具依照**花費金額**分 成低、中、高三類。

(句型: <u>A car</u> is higher than <u>a bus</u>.

/ <u>A boat</u> is lower than <u>a plane</u>.)

- (3) 各組將交通工具依照**碳排放量**分 成低、高兩類。
- 6. (句型: <u>A car</u> is higher than <u>a bus</u>. /
 <u>On foot</u> is lower than <u>a taxi</u>.)

【統整與總結】

7. 公布數據與結果,讓同學發表意

20分鐘

- 5. Sort out the transportation by the speed, from low to high.
- 6. According to the transportation costs, divide the transportation into three groups (low cost, middle cost, high cost).
- 7. According to the carbon footprint, divide the transportation into two groups (no carbon footprint, produce carbon footprint).

10分鐘

		見,例如學生對於電車、捷運、			
		電動機車等交通工具會有迷思概			
		念,認為電力運作的交通工具不			
		會有碳排放,老師能澄清迷思。			
		【引起動機】	5分鐘	1. 繪本與討論	1. Please say the
	1.	複習單字與句型:教師抽點小組		ppt	word. 2. Please answer in
		及個人回答交通工具單字及上節			a sentence.3. Let's read a book
		課學習的句型。			called
					Transportation Pollution.
		【發展活動】	20.0 / /*		4. Please write down your
	2.	繪本 Transportation Pollution:教	20分鐘		answer on your
		師帶領學生閱讀繪本重點內容。			whiteboard. 5. Please show
	3.	各組在小白板上書寫討論結果,			your answer to everyone.
		並上台發表:			6. How do you go
		(1) What are the three types of			to school?
		transportation pollution?			
第		(2) What can we do to reduce the			
二節		pollution of making and			
		disposing cars?			
		(3) What can we do to reduce air			
		pollution? (4) What can we do to reduce noise			
		pollution?			
		ponenon.			
		【統整與總結】	5分鐘		
	4.	統整交通工具與環境汙染的關			
		係,例如:當人越來越多,交通			
		工具的排放量也相對提升,影響			
		到環境與氣候。			
	5.	思考上學和放學的交通方式如何			
L	l		l .		

Please take your iPad. Please open Safari or Google
your iPad. Please open Safari or
your iPad. Please open Safari or
Please open Safari or
•
Chrome. Please click
Google Map. Please type "Lu
Jiang
Elementary
School". Please click
route planning.
How long does it take from Lu
Jiang
Elementary
School (鷺江國 小) to Taipei
Main
Station(台北車
站)? How far is it
from Lu Jiang
Elementary
School to Taipei Main
Station?
If you take a, how much
does it cost
from Lu Jiang
Elementary School to
Taipei Main
Station?
Which bus can
you take from Lu Jiang
Elementary
School to
Taipei Main
Station? Which line can

							you take from
							Lu Jiang Elementary
							School to
							Taipei Main
							Station?
		【引起動機】	5分鐘	1. 2.	教學 ppt 海報	1.	G1 and G2 need to choose
	1.	回顧上節課 Google Map Search		3.	iPad		the
		的活動成果,並複習 Google					transportation with the lowest
		Map 的操作重點。					carbon footprint. G3 and G4 need to
		【發展活動】					choose the transportation
	2.	Transportation Planning:教師營	25分鐘				with the cheapest route.
		造情境,請學生利用 Google					G5 and G6
		Map 進行路線規劃,並能根據指					need to choose the
		定的條件抵達淡水漁人碼頭。					transportation with the fastest
	3.	全班分六組,每兩組選用相同的					route.
		指定條件,每組根據指定的條				2.	Please open google map on
第		件,自行選擇最適合的交通方式					your iPad. Your starting point is
四節		(第1、2組選擇碳排放最少的方					Lu Jiang
		式抵達;第3、4組選擇最便宜的					Elementary School and the
		方式;第5、6組選擇最快的方式					end point is Tamsui
		抵達目的地)。					Fisherman's Wharf.
	4.	將結果記錄在海報上,並貼在黑				3.	The lowest
		板。					carbon footprint
	5.	比較各組間的差異、原因與影					to go to Tamsui
		響,並討論在何種情況下,大家				4	is by
		採用的交通方式會有不同。				4.	The cheapest way to go to
	6.	經過 Google Map 的活動後學生					Tamsui is by
		對於交通工具的細項能更了解,				5.	The fastest way
		教師利用表格統整交通工具的速					to go to Tamsui
		度、花費、碳排放及優缺點。					is by
	•						

 使用汽車方便又快速,但為何還 是鼓勵民眾多搭乘大眾交通工 具?如果不減少使用交通工具, 又會帶來什麼問題?

10分鐘

6. If you can decide the way to go to Tamsui, what transportation will you choose? Why?

【統整與總結】

- 上完本單元後,學生能綜觀各種因素,盡量選擇適合且低碳排的交通工具。
- 若無法避免搭乘高碳排的交通工具,也能運用上課學習到的方法 盡量減少碳排放量。

- 7. What transportation will you not to choose to go to Tamsui? Why?
- 8. Why do we want people to take public transportation?
- 9. Which one is more ecofriendly? (drive alone, Let the car idle, drive fast, drive an electric car)? How can we make our world become better?(drive with friends, Turn off the engine if you stop over 3 minutes., drive smoothly)

参考資料

- 1. 我國國家溫室氣體排放清冊報告(2021年版): https://ppt.cc/fv4hix
- 2. 環保署綠色車輛指南網: https://ppt.cc/fQfbIx
- 3. Zero zero 選對交通工具,碳排放知多少?: https://ppt.cc/firoXx
- 4. 交通工具的速度:

https://www.gigacalculator.com/articles/what-is-the-average-speed-of-different-modes-of-transportation/

- 5. 碳排放量:https://ourworldindata.org/travel-carbon-footprint)
- 6. 全球氣溫變化幅度: https://www.bbc.com/zhongwen/trad/science-57749347

附錄 (學習單或其他教學相關資料)

附錄一: 第三節課上課學習單

附錄二:第四節課海報

Class:	Name:	Number:
Ciass.	rvanic.	Tullibel.

Google Map Search-by bus

- 🖪 Which bus can you take from Lu Jiang Elementary School to Taipei Main Station?
 - ➤ I can take bus
- How long does it take from Lu Jiang Elementary School to Taipei Main Station?
- > It takes about minutes.



- How much does it cost from Lu Jiang Elementary School to Taipei Main Station?
- > It's about____dollars.

Google Map Search-by MRT

- Which line can you take from Lu Jiang Elementary School to Taipei Main Station? (Circle the right answers.)
- > I can take Blue/Red/Orange/Yellow / Brown Line.



- How long does it take from Lu Jiang Elementary School to Taipei Main Station?
 - > It takes about minutes.



- How much does it cost from Lu Jiang Elementary School to Taipei Main Station?
- ➤ It's about dollars.

Google Map Search-by bike



- How long does it take from Lu Jiang Elementary School to Taipei Main Station?
 - > It takes about minutes.



- · How much does it cost from Lu Jiang Elementary School to Taipei Main Station?
- > It's about dollars.

Google Map Search-on foot

- How long does it take from Lu Jiang Elementary School to Taipei Main Station?
 - ➤It takes about minutes.



- · How much does it cost from Lu Jiang Elementary School to Taipei Main Station?
- ►It's about dollars.

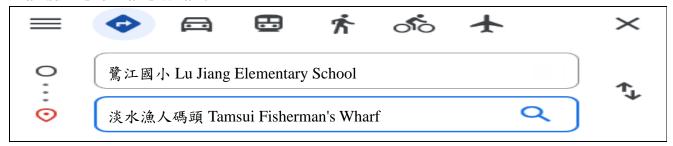
Transportation planning

Group 1 \cdot 2 Please choose the transportation with the lowest carbon footprint.



A. Please fill in the start point and end point on Google Map. It will tell you how to get to

Tamsui Fisherman's Wharf.



B. Please <u>answer</u> the following questions:

- What transportation do you use?
- How long does it take from Lu Jiang Elementary School to Tamsui Fisherman's Wharf?
- **How far** is it from Lu Jiang Elementary School to Tamsui Fisherman's Wharf?
- (§) How much does it cost from Lu Jiang Elementary School to Tamsui Fisherman's Wharf?

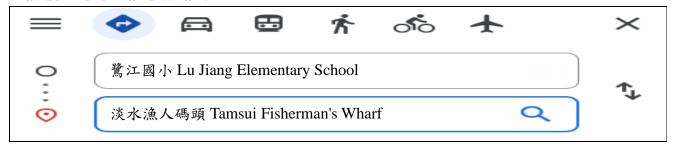
C. Please <u>draw</u> or <u>write</u> down the route(路線):

Transportation planning

Group 3、4 Please choose the transportation with the cheapest route(路線).

A. Please fill in the start point and end point on Google Map. It will tell you how to get to

Tamsui Fisherman's Wharf.



B. Please answer the following questions:

- What transportation do you use?
- How long does it take from Lu Jiang Elementary School to Tamsui Fisherman's Wharf?
- How far is it from Lu Jiang Elementary School to Tamsui Fisherman's Wharf?
- How much does it cost from Lu Jiang Elementary School to Tamsui Fisherman's Wharf?

C. Please draw or write down the route(路線):



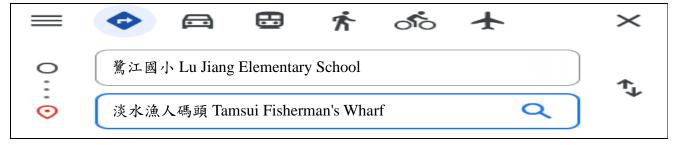
Transportation planning

Group 5、6 Please choose the transportation with the fastest route(路線).



A. Please fill in the start point and end point on Google Map. It will tell you how to get to

Tamsui Fisherman's Wharf.



B. Please <u>answer</u> the following questions:

- What transportation do you use?
- How long does it take from Lu Jiang Elementary School to Tamsui Fisherman's Wharf?
- **How far** is it from Lu Jiang Elementary School to Tamsui Fisherman's Wharf?
- **How much** does it cost from Lu Jiang Elementary School to Tamsui Fisherman's Wharf?

C. Please <u>draw</u> or <u>write</u> down the route(路線):

