## 臺北市立三民國民中學《生生不息》雙語教學教案

Taipei Sanmin Junior High School Bilingual Teaching in Global Science 7<sup>th</sup> Grade Coure/Lesson Plan

Taipei Sanmin	Junior High	School Bilingual Teach	ing in Global Sci	ience 7 <sup>th</sup> Grade Coure/Lesson Plan				
課程名稱	蝴蝶的自白	(Butterfly Intro)	融入學科領域	Biology (English)				
教材來源	Teacher-pre	pared materials	教案設計者	李筠菜 (Claudia)				
實施年級	7 <sup>th</sup> grade (C	Class 705-706)	授課時間	2 periods, 90 minutes				
	由於本學期的表現任務是要培訓學生成為中、英文校園生態解說員,為訓練學生的							
	英語口說能力,將英語融入生生不息課程,引導學生認識校園常見生物——蝴蝶,							
<b>业组</b> 机业研入	以第一人稱角色扮演的方式陳述蝴蝶的特色,以及牠在我們的文化之中所代表的意							
教學設計理念	義。此外也進一步了解臺灣因為有豐富的棲地多樣性,而孕育出種類繁多的蝴蝶,							
	被稱為「蝴蝶王國」。在三民國中裡,其實也記錄了高達 118 種蝴蝶,堪稱本校的							
	生態特色。然而臺灣有些蝴蝶的數量正在減少甚至滅絕,藉此強調保育工作的重要。							
	【自然領域	a]						
	自-J-C1 從	日常學習中,主動關心	2自然環境相關:	公共議題,尊重生命。				
	自-J-C2 透過合作學習,發展與同儕溝通、共同參與、共同執行及共同發掘科學相							
學科核心素養	關知識與問題解決的能力。							
對應內容	【英文領域】							
	→ J-B1 具備聽、說、讀、寫英語文的基礎素養,在日常生活常見情境中,能達							
	所	學字詞、句型及肢體部	吾言進行適切合:	宜的溝通與互動。				
	英-J-C2 積極參與課內及課外英語文團體學習活動,培養團隊合作精神。							
		【自然領域】						
		ai-IV-2透過與同儕的	討論,分享科學	·發現的樂趣。				
		【英文領域】						
		1-IV-2 能聽懂常用的教室用語及日常生活用語。						
	學習表現	2-IV-1 能說出課堂中所學的字詞。						
		2-IV-3 能依情境使用教室用語。						
		7-IV-3 利用語言及非語言溝通策略(如請求重述、手勢、表情等)提						
		升溝通效能。						
		【自然領域】						
	學習內容		能與構造的特徵	,可以將生物分類。				
		Gc-IV-1 依據生物形態與構造的特徵,可以將生物分類。 Gc-IV-2 地球上有形形色色的生物,在生態系中擔任不同的角色,發揮						
學科學習重點		不同的功能,有助於維持生態系的穩定。						
		Lb-IV-2 人類活動會改變環境,也可能影響其他生物的生存。						
				的生存環境,使生物能在自然環境				
				以維持生態平衡。				
		Ma-IV-2 保育工作不是只有科學家能夠處理,所有的公民都有權利及義務,共同研究、監控及維護生物多樣性。						
		【英文領域】	1 一	土初夕旅江				
			<b>日</b> 缶 。					
		Ac-IV-2 常見的教室用語。 B-IV-4 個人的需求、意願和感受的表達。						
		B-IV-7 角色扮演。 CW 2 图中日 1 R 株						
		C-IV-2 國內風土民情	• 0					

## 學生在國小階段已學過關於昆蟲的基本概念,包含昆蟲的外型特徵、身體構造、運 動方式、食性等,以及依昆蟲的生活史可分為完全變態與不完全變態。 學生先備知識 學生已學過基本的英文教室用語,能理解老師的英文指令,也能在需要教師協助時 以簡易英文句型提問。 1. 熟悉蝴蝶的構造及其生活史。 2. 了解臺灣因有多樣化的棲地而孕育了豐富的蝴蝶種類。 學科單元 3. 了解人類活動可能影響蝴蝶的生存,以及可以採取的保育行動。 學習目標 4. 培訓學生成為校園蝴蝶解說員。 Language of learning Vocabulary: ♦ Primary: butterfly, wing, head, leg, life cycle, egg, adult, scale, island, species, record, kingdom, habitat ♦ Secondary: anatomy, antenna, thorax, abdomen, caterpillar, chrysalis, threat, extinct, endanger, conservation Language for learning (language skills) 1. Could you .....? 2. May I .....? 3. How do you .....? 4. Have you ever seen ..... on our campus? 5. I can ..... with ..... 6. ..... is divided into ..... 7. ..... lay eggs. 8. How many ..... are there .....? Language through learning 語言學習目標 [For teachers] 1. If you need any help, please raise your hand. 2. Please fill in the worksheet. 3. Pay attention, please. 4. Please repeat after me. 5. I can't hear you. Please read out loudly. 6. Please collect the worksheets and hand them in. [For students] 1. Could you help me? 2. Could you say that again? 3. Could you say that more slowly, please? 4. Could you tell me .....? 5. Could you check this for me? 6. May I have .....? 7. How do you spell .....? 8. How do you pronounce this word?

9. I don't know how to .....

	For teacher	For students						
	1. 盡量使用全英語授課。	1. 學生可以使用中文表達。						
中文使用時機	2. 若學生無法理解, 盡量以簡易英文及肢	2. 鼓勵學生多使用英語發問及回答問題。						
	體語言表達。	3. 欲確認	學生是否	了解課程內容,可請學				
	3. 若學生仍無法理解,才使用中文說明。	生使用	中文回答	<b>5</b> •				
與其他領域/	社會領域-地理科:了解蝴蝶在本地文化的意義。							
學科的連結	社會領域-公民科:體認環境保護人人有責	<b>,可以</b> 行	<b>亍動支持</b> な	相關法案的修訂。				
<b>→¥ 85 ≈1 、</b>	□性別平等教育 □人權教育	環境教	育	□海洋教育				
	□品德教育 ■生命教育	□法治教	育	□科技教育				
議題融入	□資訊教育 □能源教育	□安全教	育	□防災教育				
(無則免填)	□家庭教育 □生涯規劃教育	□多元文	化教育	□閱讀素養				
	□戶外教育 □國際教育	□原住民	族教育					
क्षा वर्ष १ हे । स	中籍生物教師與英語教師共同以英語授課。							
學習情境	先以簡易影片認識蝴蝶的構造及生活史,並利用遊戲融入教學,引起學生的動機。							
與動機引發	接著讓學生了解臺灣地區以及本校的蝴蝶多樣性,藉此帶入保育工作的重要。							
教學策略	講述、問題互動、分組遊戲中學習							
	■閱讀 □實驗 □美工(含繪畫等) □田野調查 ■資訊融入							
<b>特色教學</b>	□肢體(舞蹈、戲劇、體育等) □電影 □其他,請說明:							
教學資源	· □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □ □							
及器材	電腦、單槍、擴音設備、學習單、印章							
	教學流程 (第1節	)						
	教學內容		時間	評量方式				
【Warm up】								
1. Review the cl	assroom sentences in English.		3mins	課堂中若有使用英文				
(1)Could you	help me?			問句則由老師蓋章,可				
(2)Could you	say that again?			加分。				
(3)Could you	say that more slowly, please?							
(4)Could you	tell me?							
(5)Could you	check this for me?							
(6)May I have ?								
(7)How do you spell ?								
(8)How do you pronounce this word?								
(9)I don't know how to								
2. Have you ever seen butterflies on our campus? What color are 1min								
they? Do you know their name?								
T Classical A								
Classroom A								
1. Watch a video about butterflies.								
2. Fill in the worksheet. Make sure that students understand all the 3mins 學生是否專注觀								
meaning of all the sentences, and then ask them to read out the 7mins 學習單填寫狀況								
sentences.								

(1)Butterfly Anatomy:  A. I can fly with my four wings. And there are so many scales on my wings.  B. I can smell with my antenna.  C. I can stand and walk with my six legs.  D. My body is divided into three parts: head, thorax, abdomen (2)Life Cycle of a Butterfly:  A. A female butterfly lay eggs.  B. The egg becomes a caterpillar / larva. It will eat lots of vegetation.  C. The caterpillar forms a house around itself. It is called chrysalis / pupa.  D. A colorful adult butterfly with wonderful wings emerges from the chrysalis.  3. Pair work: Ask the following questions with their partners, and the 8mins 小組練習之參與度
on my wings.  B. I can smell with my antenna.  C. I can stand and walk with my six legs.  D. My body is divided into three parts: head, thorax, abdomen  (2)Life Cycle of a Butterfly:  A. A female butterfly lay eggs.  B. The egg becomes a caterpillar / larva. It will eat lots of vegetation.  C. The caterpillar forms a house around itself. It is called chrysalis / pupa.  D. A colorful adult butterfly with wonderful wings emerges from the chrysalis.  3. Pair work: Ask the following questions with their partners, and the 8mins 小組練習之參與度
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D. My body is divided into three parts: <a href="head">head</a> , <a href="thorax">thorax</a> , <a href="abdomen">abdomen</a> (2)Life Cycle of a Butterfly:  A. A female butterfly lay <a href="eggs">eggs</a> .  B. The egg becomes a <a href="caterpillar / larva">caterpillar / larva</a> . It will eat lots of vegetation.  C. The caterpillar forms a house around itself. It is called <a href="chrysalis/pupa">chrysalis/pupa</a> .  D. A colorful <a href="mailto:adult">adult</a> butterfly with wonderful wings emerges from the chrysalis.  3. Pair work: Ask the following questions with their partners, and the 8mins <a href="head">小組練習之參與度</a>
(2)Life Cycle of a Butterfly: A. A female butterfly lay eggs. B. The egg becomes a caterpillar / larva. It will eat lots of vegetation. C. The caterpillar forms a house around itself. It is called chrysalis / pupa. D. A colorful adult butterfly with wonderful wings emerges from the chrysalis.  3. Pair work: Ask the following questions with their partners, and the 8mins 小組練習之參與度
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B. The egg becomes a <u>caterpillar / larva</u> . It will eat lots of vegetation.  C. The caterpillar forms a house around itself. It is called <u>chrysalis / pupa</u> .  D. A colorful <u>adult</u> butterfly with wonderful wings emerges from the chrysalis.  3. Pair work: Ask the following questions with their partners, and the 8mins 小組練習之參與度
vegetation.  C. The caterpillar forms a house around itself. It is called <a href="https://chrysalis/pupa">chrysalis/pupa</a> .  D. A colorful <a chrysalis="" href="https://doi.org/10.1001/journal.or&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;C. The caterpillar forms a house around itself. It is called &lt;a href=" https:="" pupa"="">chrysalis/pupa</a> .  D. A colorful <a href="https://chrysalis/adult-butterfly-with-wonderful-wings-emerges from the chrysalis">chrysalis / pupa</a> .  3. Pair work: Ask the following questions with their partners, and the 8mins 小組練習之參與度
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3. Pair work: Ask the following questions with their partners, and the 8mins 小組練習之參與度
partners should answer the sentences they have learned.
(1)How can you fly?
(2)How can you smell?
(3)I can stand and walk with my two legs. How about you?
(4)How many parts does your body have?
(5)What is the life cycle of a butterfly?
4. Play a Matching game to impress the words upon students' mind.
(1)Divide the class into 4 groups.
(2)Explain the rules of the game. 3mins 學生是否專注聽講
A. Students are not allowed to take any note with their pen and
paper.
B. Each group can choose two cards by turns.
C. After picking any card, the group members have to read out
the sentence that relates to the card's content.
D. If one group picks two related cards, the group will get
points, or the cards picked should be turned back.
(3)Identify the pictures of the cards.
(4)Show the cards for students to remember. 30secs
(5)Play the game.
度。
[Review & Sum up] 5mins
1. Sum up what we have learned today.
2. Ask some questions related to the next class.
(1)How many kinds of butterflies are there in Taiwan?
(2)How many kinds of butterflies are there on our campus?
3. Collect the worksheets.

教學流程(第2節)						
教學內容	時間	評量方式				
[Warm up]						
1. Review the classroom sentences in English.	2mins	在課堂中應用可加分。				
2. Review the butterfly anatomy and its life cycle.	2mins					
3. Ask the questions that the last class presented:	1min					
(1)How many kinds of butterflies are there in Taiwan?						
(2)How many kinds of butterflies are there on our campus?						
[Classroom Activities]						
1. Each group reads one of the four short articles which are about:	15mins	小組討論參與度。				
(1)The diversity of butterflies in Taiwan and Sanmin Junior High						
School.						
(2) The meanings of the butterflies in our culture.						
(3)Some of the butterflies in Taiwan under threat.						
(4)The ways to conserve butterflies.						
2. Each group should fill in the blank of the lecture note, and	5mins	小組討論參與度。				
everyone should be assigned to say at least one sentence in their						
report.						
3. Watch one piece of news about the purple crow butterfly	1min	學生是否專注觀賞。				
migration. This is also a demonstration for students to make a						
presentation.						
4. Each group makes a presentation by turns. And other groups	15min	小組報告情形、課程參				
should fill in all the blanks else according to the presentation which		與度。				
the group is making.						
【Review & Sum up】	4mins					
1. Sum up and ask some questions about what we have learned today.						
2. Collect the worksheets.						