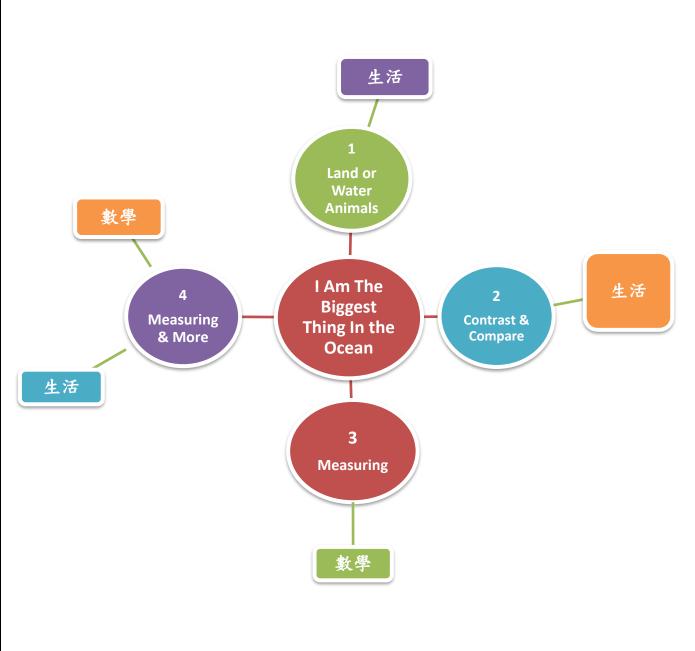
臺南市東區勝利國小一年級校訂彈性學習課程模組教案設計

主題名稱	海裡我最大 I Am the Biggest Thing In the Ocean	設計者	黄郁雯、王憶文、梁玉鈴
實施年級	一年級	總節數	4 節

教學設計理念說明:

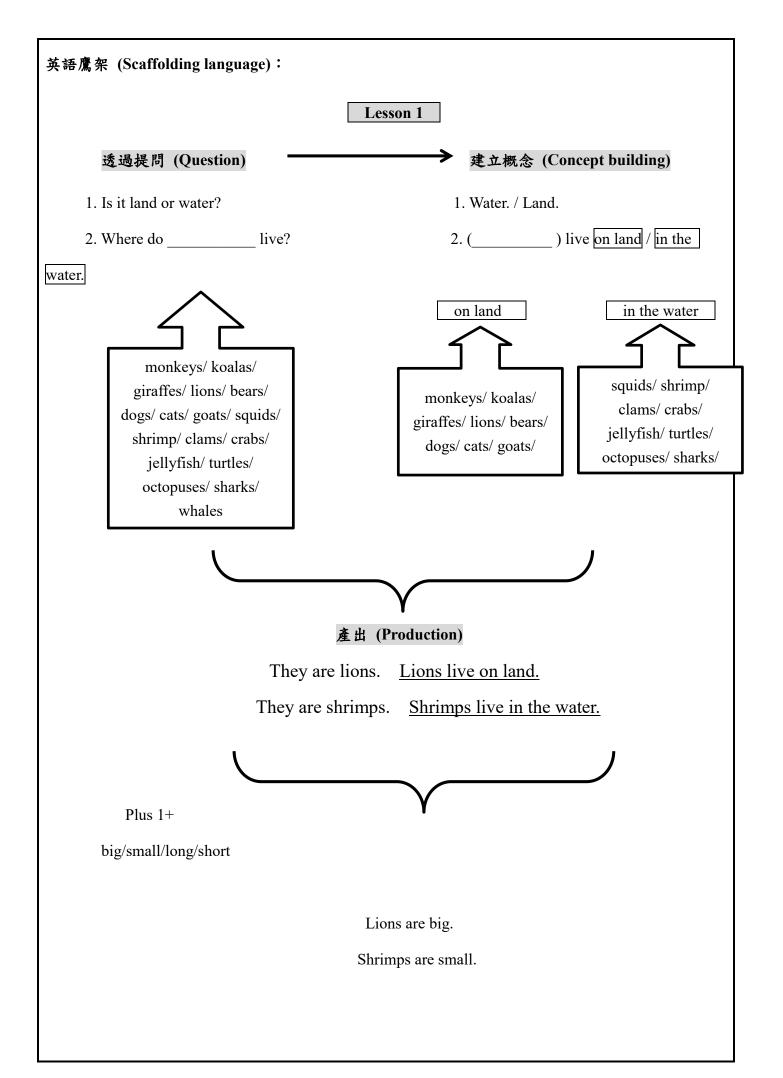
對於小一的學生而言,大跟小的比較到底是如何對照?地球上,陸地上的動物比較大還是海裡 的動物比較大呢? 烏賊比較大還是章魚比較大呢? 誰才是海裡最大的生物呢? 本課程藉由各 式各樣大大小小的海洋生物對比引發學習興趣及動機,帶領孩子進行海陸兩大類生物分類,並 學習如何使用工具量測並描述日常生活中常見的物品的尺寸大小長短高矮及排序,建立比較 的"相對"概念。

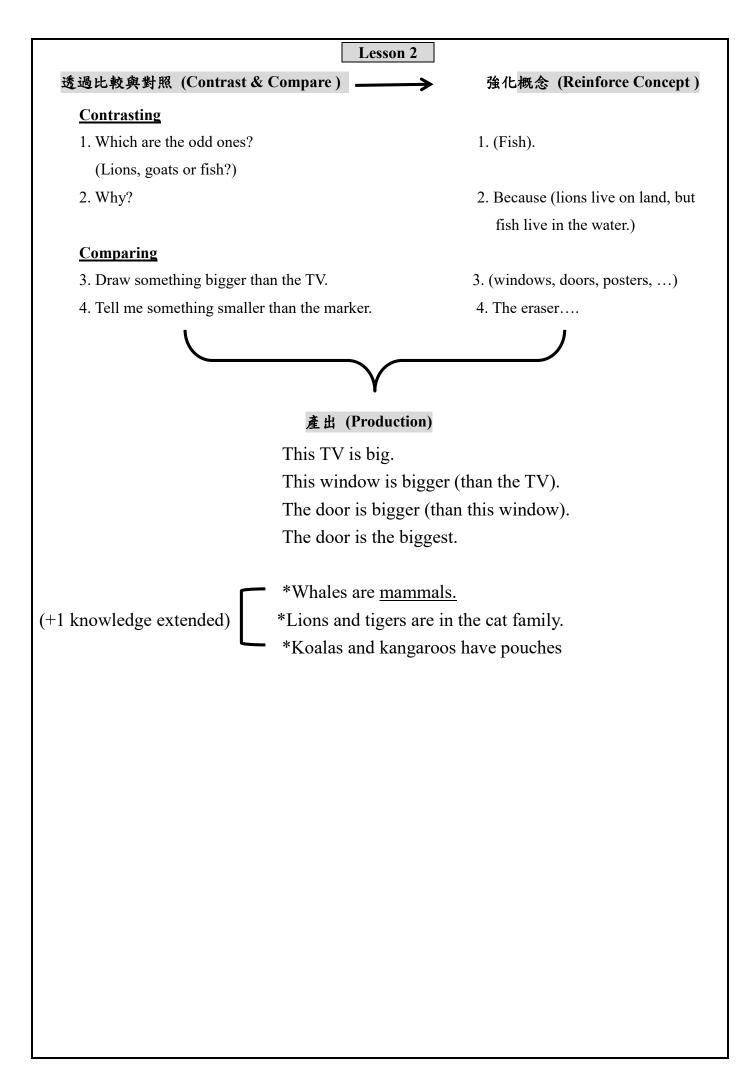
跨領域主題統整架構圖:

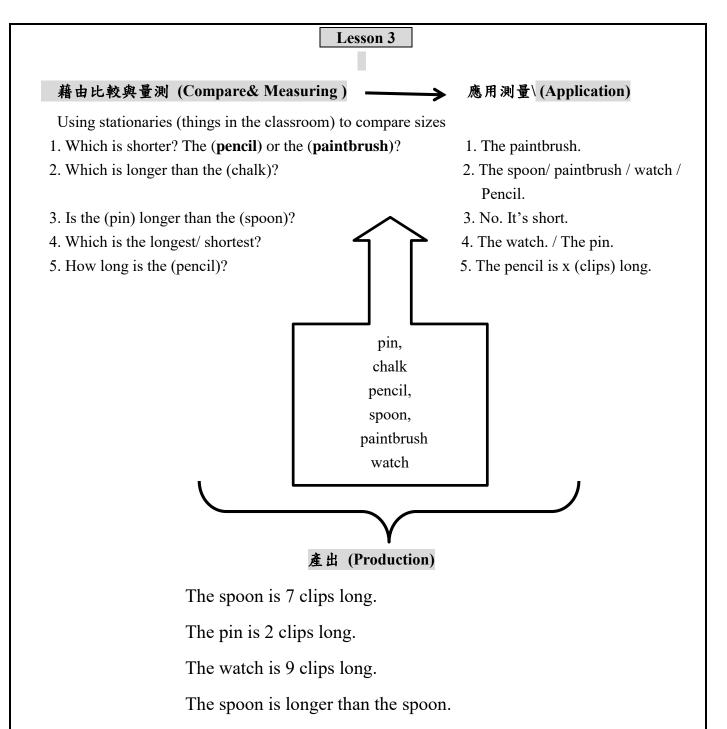


	核心素養、學習重點(含學習表現與學習內容)、學習目標對應情形			
	總綱	A2 具備問題理解、思辨分析、推理批判的系統思考與後設思考素養,並能行動與反思, 以有效處理及解決生活、生命問題。		
核 心素 領綱 (不含 英語) 及時間,認識日常經驗中的幾何形體,並能以 數-E-A2 能執行基本的算術操作,能指認基本的形體與 數學表述與解決問題。 生活-E-A1 透過自己與外界的 連結,產生自我感知並能 同時透過對生活事物的探索與探究,體會與感 解決問題,持續學習。 生活-E-A2 學習各種探究人、事、物的方法並理解探究後 問題的能力。 生活-E-B1 使用適切且多元的表徵符號,表達自己的想法		具備日常語言與數字及算術符號之間的轉換能力,並能熟練操作日常使用之度量衡及時間,認識日常經驗中的幾何形體,並能以符號表示公式。 數-E-A2 能執行基本的算術操作,能指認基本的形體與相對關係,並在日常生活的情境中,用 數學表述與解決問題。 生活-E-A1 透過自己與外界的 連結,產生自我感知並能對自己有正向的看法,進而愛惜自己, 同時透過對生活事物的探索與探究,體會與感受學習的樂趣,並能主動發現問題及 解決問題,持續學習。 生活-E-A2 學習各種探究人、事、物的方法並理解探究後所獲得的道理,增進系統思考與解決 問題的能力。		
學	學習 表現	生活 3-1-1 願意參與各種學習活動,表現好奇與求知探究之心。 3-I-3 體會學習的樂趣和成就感,主動學習新的事物。 7-I-5 透過一起工作的過程,感受合作的重要性。		
習重點	學 內	生活 D-I-4 共同工作並相互協助。 數學 C-I-2 媒材特性與符號表徵的使用。 N-1-1 一百以內的數:含操作活動。用數表示多少與順序。		
學習目標		藉由辨識海陸生物形體及特性、理解大小長短高矮的比較與對照、使用非公制單位工 具進行量測,並應用於實際生活生活周遭可見人事物,進行邏輯判斷。		
議題融入 (實質內涵)		海洋教育- 海洋文化 海 E7 閱讀、分享及創作與海洋有關的故事		
教材來源 教學資源/ 設備需求		 繪本: I Am the Biggest Thing In the Ocean By Kevin Sherry 康軒版 一年級生活課本 自編教材 		
		 Overhead Projector 小白板、白板筆、板擦 動物圖卡(護貝) 迴紋針 		

	 5. 白色古氏積木 1*1*1*1 6 教室內常見物品:橡皮擦、鉛筆、筆記本…等數種。 7 拍攝學生照數張。
參考資料	https://www.youtube.com/watch?v=7pMEQsk3c5Y https://www.google.com/search? https://www.youtube.com/watch?v=P7-UNYm0P2w https://www.youtube.com/watch?v=a1kN6QxpI6E https://www.education.com/lesson-plans/?cid=11.2143 https://www.projectpals.com/project-based-learning-blog/how-to-implement-inquiry- based-learning-lesson-plans https://ncssm.instructure.com/courses/789/modules https://www.youtube.com/watch?v=P7-UNYm0P2w&t=50s



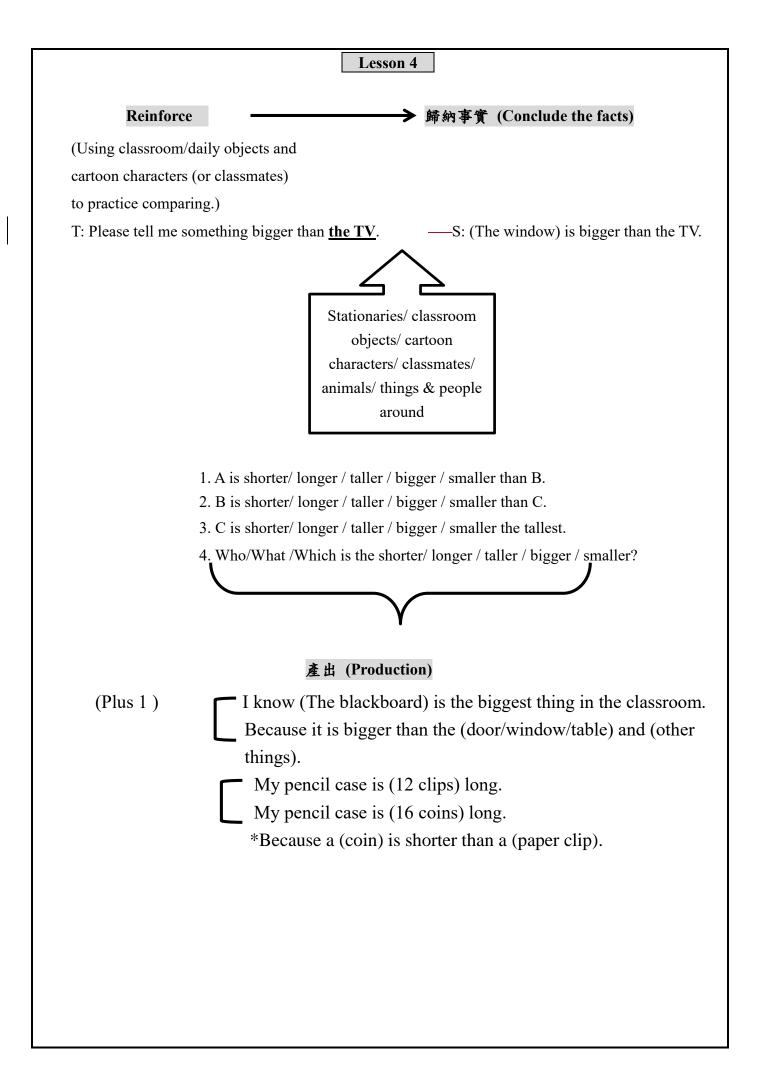




The pin is shorter than the (chalk/ pencil/spoon/paintbrush/watch).

The watch is the longest.

The pin is the shortest.



	教學活動內容	Teacher's words	Students' words	
【第一箭/單	元名稱:Land or Water Animals】	words	worus	
Pre-task : W				
1. Show stud	ents a world map, and guide them to identify ls and waters are?	T: Is it land? Is it water?	S: It is land. It is water	
	the differences between land and water by ne photos of the animals.			
Main task: L	ook and Tell			
A. Land Anin	mals vs. Sea Animals			
1. Show mosai	pictures of land and ocean animals with c.	T: It lives on land. What is it?	S: It is a/an 	
2. Studen they a	nts then guess what the land and water animals re.	It lives in water. What is it?	(monkey, koala, giraffe, lion, bear, dog, cat, goat, squid,	
bear, dog,	sted as following: Monkey, koala, giraffe, lion, cat, goat, squid, shrimp, clam, crab, jellyfish, ppus, shark, whale.		shrimp, clam, crab, jellyfish, turtle, octopus, shark,	
			whale.)	
B. Where do t	•			
1. Present the		T : Where do	~	
	ferent kinds of animals, and confirm students' of where the animals live.	<u>monkeys</u> live?	S: They live <u>on land</u> . (whales, lions, giraffes, koalas,	
Post task: Sh	ow and tell.		sharks)	
1. Given each	n student one sea or land animal picture cards.	T: What are they?		
2. Students h	ave oral presentation on stage one after one.	Where do they	S: They are	
3. Other stud	ents learn to listen and pay attention to others'	live?	They live in the	
presentati	on courteously.		water/ on land.	
3. Review all	the animals by guessing what the animals are.			
	1. 透過口語發表,檢視學生對動物名與他	 .們居住在路地或海洋核	既念的理解。	
	2. 利用教室觀察,確認學生是否達到學習	目標。		
評量方式 觀察學生是否能夠合作完成口語發表任務。 觀察學生是否能尊重,並且聆聽其他學生的發表。 				
(評量內容 與策略)	精熟: 回答完全正確, 並能用完整句子	回答。		
兴农哈)	優良: 80%以上回答正確,回答內容與是	題目相符,但文法略有	錯誤。	
	通過: 60% 以上回答正確,回答內容與題目相符,但文法略有錯誤。。			
	待加強: 60% 以下回答正確,且須老師	提示或引導才能回答	問題。	

教學活動內容	Teacher's	Students'
	words	words
【第二節/單元名稱:Contrast & Compare】		
Pre-task : Contrast		Ss: Yes!
Odd One Out!		
1. Greet and explain t of "Same and different ".	T: Are they the	
2. Assign each student a number in every team.	same? Are they	
3. Do the activity: Odd One Out.	different?	Ss: Yes. / No.
4. Assign each team a mini whiteboard on the		
blackboard.	T: Write down the	
5. Present them the PPT slide and ask Ss. to write down	picture number of the	
the picture number of the odd animals.	"odd" one.	Ss: Okay!
6. Show the first one as an example:		
1. zebras / 2. cats / 3. stingrays	T: Let's look at the example. Which one	Ss: Picture No.3 <u>.</u>
$\begin{cases} Q1-1. \text{ whale } / 2. \text{ seahorse } / 3. \text{ shark} \\ A1-1 \text{ whale. (It's a mammal)} \end{cases}$	is the odd one?	
^L A1- 1 whale. (It's a mammal)		
Q^2 - 1. turtle / 2. squid / 3. Octopus A2- 1 turtle (It doesn't have tentacles)	T: Can you tell me	Ss:(Because) (Cats
$^{\frown}$ A2- 1 turtle. (It doesn't have tentacles)	why?	and zebras are land
		animals; stingrays
		are water (sea)
		animals.
Main task : Compare	T: Now, we are	
~I Am the Biggest Thing in the Ocean	going down into the	
1. Show students the slides with all sea animals and ask:	ocean and find out	
* dolphin, diver, starfish, stingray, eel, sea horse	"Who is the Biggest	
	thing in the ocean."	
2. Read out loud with "facial and sound" expressions.	T:Can anyone tell	S.s: (any possible
 3. Go through " I am the biggest thing in the ocean 	me who the biggest	answers.)
together." (Story time by Steph)	thing in the ocean	diswers.
https://www.youtube.com/watch?v=a1kN6QxpI6E	is~?	
intps://www.youtube.com/waterr.v_arkrogxpiol/	15 .	
4. Ask questions about the story.	T: What sea animals	S.s: (dolphin, diver,
1	do you see?	starfish, stingray,
Post task:		eel, sea horseetc.)
Song: Down in the blue sea		, , ,
https://www.youtube.com/watch?v=P7-UNYm0P2w	T: Alright,	
1. Review the sea animals.		
2. Sing the song and do sea animal dance together.		

	1. 藉由多方提問,確認學生對動物特性的認知。
評量方式	2. 透過學生給予的答案,審視學生的理解。
計重力式 (評量內容	3. 以活動間的課室觀察,檢視學生是否達到學習目標。
()	
與策略)	

	Teacher's	Students'
教學活動內容	words	words
【第三節/單元名稱:Big – Bigger – The Biggest】		
Pre-task: 樂唱引動機	Let's sing together!	Sing
1. Sing the Song "Big, bigger, biggest" (to 1'15")		
https://www.youtube.com/watch?v=P7-	Let's sing like a	
UNYm0P2w&t=50s	(whale/ bird)!	
2. Sing "I'm the Biggest thing in the Ocean"		
https://www.youtube.com/watch?v=BLe6DQi-YZI		
Main task : Compare and Measure		
教師用海裡我最大的海中生物與部分課室/校園常見人		
事物的 PPT 進行:		
1. Present the PPT. of "I'm the Biggest Thing in the Ocean."	T: Which is bigger?	S: The diver.
2. Direct S.s to compare objects.	The diver or the	
2-1 二件物件的比較 Compare 2 objects	seahorse?	
T: (Squid and Octopus) Which is (bigger)?	T: Which is smaller?	S: The diver.
(Shrimp and Seahorse) Which is (smaller)?	The diver or the	
(Jack's hair and Maggie's hair) Which is (longer)?	stingray?	
(This marker and this pencil) Which is (shorter)?		
	T: Look at these 3	S: The dolphin.
2-2 三物件的比較與排列	sea animals. Which	
T: (Squid, Octopus and Whale) Which is (the biggest)?	is the biggest?	
(Shrimp, Clam and Seahorse) Which is (the smallest)?		
(Jack's, Lisa's and Maggie's hair) Which is (the	T: Which is the	S: The seahorse.
longest)?	smallest?	
(This marker, this pen and this pencil)	T: What is the	S: The whale.
Which is (the shortest)?	biggest thing in the	
	ocean?	
3. Measure with non-standard unit		
3-1Teacher demonstrates how to measure objects with	T: Here are some	(possible answers~
paper clips and other non-standard measuring tools	clips.	elephants/ whales
(blocks/ feet/ coins). (at least measure 3 objects)	T: Let's find out	/dinosaurs/)

	1 1 1	
3-2 Teacher gives each group a box of clips and asks	how many clips long	
S.s to take out a pencil. S.s use clips to measure their	is my marker, Okay?	
pencils.	Now let's see, (can	
3-3 Teacher asks questions and encourage S.s to tell the	we count together?)	
others how long their pencils are.	One, two, three! My	
	marker is 3 clips	
	long.	
	T: How long is your	Ss: My pencil is (X)
	pencil?	clips long.
	T: Wow! So, whose	(Possible
	pencil is the longest	answers~ My pencil
	/shortest?	is the longest. I have
		the longest pencil.
Post ask: Measuring 非標準單位的量測		Amy's pencil is the
1. Worksheet~ measuring practice.		longest)
1-1 Teacher directs S.s how to complete this worksheet.	T: Now kids. We	
S.s work individually.	have to measure	
1-2 Check the measurement of 1-6 objects.	No.1 to 6 items on	
2. Show and Tell.	the worksheet. And	
2-1. Teacher, then, invite S. to share what they dawn on	you have to draw	
the worksheet and the measurement of it.	one thing in the	
2-2 Teacher collects the worksheets and end the class.	space at the bottom.	
	Draw whatever you	
Measure the objects with paper clips	can measure with	
	paper clips.	
2) The watch is clips long."		
3) The pin is clips long.4	T: What do you	S.: (A belt)
disciple discipl	draw, (Kelly) ?	
a) in e spoon is class long."	T: Cool. A pretty	S: (It's) X (clips
5) The pencil is clips long =	belt. How long is	long).
	it?	
6) The chalk is clips long	T: Wow! This belt is	
	X clips long.	
Now you try. (Draw and Measure)- 7) - CCCCCCCCCCCC paper clips	Tr onps tong.	

1. 透過歌曲問答,檢視學生對所學海陸生物及尺寸大小的理解
2. 透過圖片影像,確認學生對大小概念的理解
3. 利用教室觀察,確認學生是否達到學習目標
4. 觀察學生是否能夠獨立完成書寫學習單
Excellent: 學生能獨立完成學習單且全部正確。(包含名字和座號)
Well Done: 學生能獨立且正確完成 80% 以上學習單的內容
Okay: 學生能獨立且正確完成 60% 以上學習單的內容
Need Improvement: 未達以上行為

【第四節/單元名稱: Measuring and More】		
Pre-task:	T: So we've learned	
1. Greet and explain that now students will get even	how to measure things	S.s: (Doraemon) is
more practice comparing objects!	with paper clips. Now	the shortest.
2. Present PPT slides of different animation characters,	we're going to compare	Takeshi is the
animals and daily items.	more things and people.	tallest.
Examples: Doraemon / Takeshi/ Suneo (tall/ short)	Look what we have	
A giraffe/ a horse / a cow (tall / short)	here. Ha! We've got	
A chick / a rooster / a turkey (big / small)	"Takeshi, Suneo and	
A clownfish/ a lobster/ a sea turtle (big/ small)	Doraemon", so who is	
A train/ a bus / a bicycle/a jet plane (long/ short)	the tallest? Who is the	
Ironman/ Olaf / Pokemon / Godzilla (tall/ short)	shortest?	
 Main task~ Treasure Hunt! 1. Ask size questions about objects in the classroom. Provide additional items for students to compare. 2. Pass out the worksheet. "The Big and Small / Long and Short Treasure Hunt". Put 4 students in a group. Assign each student a mission. 3. Have students complete the worksheet. Then, place group worksheet on the board. Invite students to the 	 T: Kids, look around the classroom. Please find me something bigger than my pen T: Are the pen and the pencil the same long? T: Ok. Now you are going to tell me the biggest/longest/shortest/ 	S.s: (Any possible answers) S.s: No, the pencil is longer.
front to share their group work and compare their	smallest thing in the	
works.	classroom. There are 4	
	of you in a group.	

4. Encoura	ge students to practice using the vocabulary	Number 1 of the group	S.s:
in contex	xt. For example, " is the biggest thing	draw me the biggest	() is the biggest
in the cl	assroom because it is bigger than	thing in the classroom.	thing in the
		Number 2	classroom because
			it is bigger than ().
 to measure Display rope on Encoura (estimate clips/ cu is. Use pap cubes to Explain Pass out 	Using different units a piece of ribbon or the board	T: Kids! Look at the ribbon. Now, can anyone tell me how many clips long is this ribbon? Let's use paper clips/ cubes to measure this ribbon. So the ribbon is 8 clips long. The ribbon is 10 cubes long. Why?	S.s: (Possible answers) S.s: (Possible answers)
 并量方式 (評量內容 與策略) 1. 透過照片 ppt 詢問相關問題,確認學生能以不同面向比較物件。 2. 透過學生給予的答案,審視學生的理解。 3. 利用隨堂觀察,確認學生是否達到學習目標。 4. 觀察學生是否能夠獨立完成書寫學習單: Excellent: 學生能獨立完成學習單且全部正確。(包含名字和座號) Well Done: 學生能獨立且正確完成 80% 以上學習單的內容 Okay: 學生能獨立且正確完成 60% 以上學習單的內容 Need Improvement: 未達以上行為 			