

基隆市安樂國民小學生活領域雙語課程教案設計

The Design of Bilingual Lesson Plan

學校名稱 School	安樂國小	課程名稱 Course	生活 Life Curriculum
單元名稱 Unit	第六單元 生活中的水 Water in Our Lives	學科領域 Domain/ Subject	生活 Life Curriculum
教材來源 Teaching Material	康軒版生活課本第二冊	教案設計者 Designer	林怡汝
實施年級 Grade	一年級	本單元第二節 The Total Number of Sessions in this Unit	
教學設計理念 Rationale for Instructional Design	兒童天生對水充滿好奇與興趣，水也是他們日常生活中不可或缺的資源。在實驗活動中，讓學生親身體驗，發現水的浮沉現象，並進一步理解水的浮力原理。		
學科核心素養 對應內容 Contents Corresponding to the Domain/Subject Core Competences	總綱 General Guidelines	A1 身心素質與自我精進 A2 系統思考與解決問題	
	領綱 Domain/Subject Guidelines	生活-E-A1 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。	
學科學習重點 Learning Focus	學習表現 Learning Performance	2-I-4 在發現及解決問題的歷程中，學習探索與探究人、事、物的方法。 3-I-1 願意參與各種學習活動，表現好奇與求知探究之心。 7-I-2 傾聽他人的想法，並嘗試用各種方法理解他人所表達的意見。	
	學習內容 Learning Contents	A- I -2 事物變化現象的觀察。 C- I -1 事物特性與現象的探究。	

學生準備度 Students' Readiness	學科準備度 Readiness of Domain/Subject	
	1. Ss have experience with water in daily life. 2. Ss know names of experiment material.	
單元學習目標 Learning Objectives	英語準備度 Readiness of English	
	1. Ss know simple phrases of greetings and classroom English. 2. Ss know call-and-response with teachers.	
中／英文 使用時機 Timing for Using Chinese/ English	教師 Teacher	學生 Students
	When : -T greets Ss -T explains rules of activities -T manages the classroom	When : -Ss answer questions -Ss work on worksheets -call-and-response
detail when and where you use Chinese/English.	Where : -PPTs -worksheets -videos	Where : -worksheets -read along with the video
教學方法 Teaching Methods	1. 提問討論法 2. 觀察法 3. 發現教學法 4. 多模態教學法	
教學策略 Teaching Strategies	1. 互動式提問 2. 個人及小組集點獎勵 3. 操作活動 4. 影片、圖像輔助	
教學資源及 輔助器材	1. PPT 2. Videos 3. Worksheet	

<p>Teaching Resources and Aids</p>	<p>4. Float? Sink? 實驗材料(裝水容器、鉛筆pencils、尺ruler、空瓶 empty bottle、硬幣coins、eraser橡皮擦、鑰匙keys、plastic ball 塑膠球、Magnet磁鐵)物品</p> <p>5. 線上互動教材Wordwall、Youtube (The Sink or Float測驗)</p>
<p>評量方法 Assessment Methods</p>	<p>1. 學習單、生活習作</p> <p>2. 個人回答加分</p> <p>3. 小組合作加分</p>
<p>評量標準 Rubrics</p>	<p>1、能說出各項物品浮或沉</p> <p>T:Does it sink or float?</p> <p>Ss: It floats. It sinks.</p> <p>2、能歸納出物品浮或沉的原因。</p>
<p>Language of assessment</p>	<p>核心參考語彙</p> <p>float, sink</p> <p>heavy, light, flat, has air, (empty), (full), (plastic)</p> <p>實驗步驟相關指示：Take turns. // Choose one thing. // Discuss with your classmates. // One thing at a time. // Watch carefully.</p> <p>Does it sink or float?</p> <p>課室語言：Listen to me. // Follow the rules. // Don't play with the water.</p>
<p>議題融入 Issues Integrated</p>	<p>環境教育</p>

	<p style="text-align: center;">教學流程 Teaching Procedures</p>	
<p>第二節 Float or Sink</p>	<p style="text-align: center;">準備階段 Preparation stage</p> <p>Greeting (教師以英文和學生打招呼和說明學習重點) T: Good morning, everyone. T: Who is class leader ? Ss: Attention. Bow Ss: Good morning, Teacher. T: Good morning, students. Please sit down. T: Today we are going to learn about “Float or Sink” .</p> <p>[活動一]小河馬洗澡影片(1’ 26)</p> <p>1. 老師播放影片(https://youtu.be/2PpYpS8zFTA?feature=shared)，透過影片中的小河馬洗澡遊戲，了解 float and sink。 T: Let’ s watch a video. We’ ll see if objects are going to float or sink. T: Please look at the video, what floats? What sinks? . 影片討論(老師播放PPT) T: What does float mean? What does sink mean? Ss:浮起來，沉下去。 T: Good! Float means the object stays on the water, Sink means the object goes into the water.(配合手勢) Ss: Float , sink(邊說邊作出手勢) T: An apple is on the water. Does it sink or float? Ss: It floats. T: A fork is in the water.Does it sink or float? Ss: It sinks.</p> <p>2. 學生說出影片中那些物品 float ? 那些物品 sink? T: In the video, what floats? What sinks? Ss:玩具鴨(toy duck)floats、鞋子(shoe) sinks、毛巾(towel) sinks、湯匙(spoon) sinks、球(ball) floats、杯子(cup) floats.</p> <p style="text-align: center;">發展階段 Development stage</p> <p>[活動二]老師示範請學生預測</p> <p>1. 老師拿出準備好的實驗物品，以 PPT 撥放學習單，說明如何填寫及預測。 T: Write down your class, number, and name.</p>	<p>8</p> <p>5</p>

T: First, predict does it float or sink? Then you can circle “sink” or “float” in the worksheet. For example: I put a key into the water. It sinks. Then you can circle “sink” in the worksheet.

2. 老師介紹實驗的(鉛筆pencils、尺ruler、空瓶 bottle、硬幣coins、eraser橡皮擦、鑰匙keys、plastic ball塑膠球、Magnet磁鐵)物品，請學生預測浮或沉

T: 拿出容器: If I want to know “Does it sink or float?”

what should I put in the container?

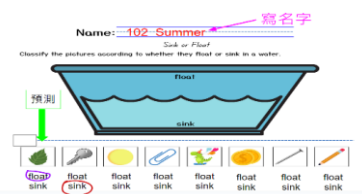
Ss: water

T: First, put water into container.

T: 拿出實驗材料並介紹其英文

(鉛筆pencils、尺ruler、空瓶 bottle、硬

幣coins、eraser橡皮擦、鑰匙keys、plastic ball塑膠球、Magnet磁鐵)



T: According to your prediction, does it sink or float?

(學生可能會有不同的predictions)

T: Please circle “float” or “sink” in the worksheet.

T: some of you think it sinks, some of think it floats.

T: Now, let's try together! Does it sink or float?

[活動三] 學生動手做實驗

1. 浮沉實驗

T: Today we are going to do float and sink experiment. Now it's your turn.

T: 提醒實驗規則，請學生複誦一遍

(1) Don't move (the container).

(2) Don't play (with water).

(3) Be nice. Take turns.

(4) Be a team. Talk and share.

T: All the objects are in the basket. Team leaders come to me, and take your basket back.

T: You have five minutes. Go!

2. 老師巡視，並加入學生之間的討論。

S1: 比較輕的會浮起來，重的會下沉。 S2: 鉛筆很重，應該會沉下去。

S3: 扁扁的東西會浮起來。 S4: 空瓶裡面有空氣，會浮起來。

3. 實驗結束後，學生將實驗器材放回。老師用 PPT 和全班核對實驗結果。

T: Let's see what's going to sink? What's going to float?

T: pencil? Ss: floats.

	<p>T: ruler? Ss: sinks T: empty bottle? Ss: floats. T: coin? Ss: sinks. T: eraser? Ss: sinks. T: key? Ss: sinks. T: plastic ball? Ss: floats. 、 T: Magnet? Ss: sinks</p> <p style="text-align: center;">總結階段 Summary stage</p> <p>1. 請小組分享錯誤預測的浮、沉物品，並說明小組討論有可能之原因。 (適時提供教師引導：Why? How do you know?) (1)Good morning. We are group _____. (2)我們的結果跟預期的一樣/不一樣。因為_____。 (3)實驗後，我們發現_____。</p> <p>2. 教師歸納學生答案，並為浮、沉實驗做小結論 Does it sink? Does it float? It sinks. It floats. It has air It' s no air. It is empty. It is heavy. It is light. Good job everyone.</p> <p>3. Wordwall「浮力我知道」遊戲、The Sink or Float測驗 https://wordwall.net/tc/resource/37245084/%e7%a7%91%e5%ad%b8/%e6%b5%ae%e5%8a%9b%e6%88%91%e7%9f%a5%e9%81%93 透過Wordwall「浮力我知道」遊戲，請學生把題目中會浮在水面的東西和會沉入水中的東西做歸類。</p> <p>https://www.youtube.com/watch?v=OdGRHa0jGjw 透過The Sink or Float測驗，請學生回答題目上的物品會沉下去或浮起來</p> <p>Review the sentence。 Thank you everyone</p>	10
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<p>參考資料 References</p>	<p>1、康軒生活第二冊 2、小河馬洗澡影片 https://youtu.be/2PpYpS8zFTA?feature=shared 3、Wordwall「浮力我知道」遊戲 https://wordwall.net/tc/resource/37245084/%e7%a7%91%e5%ad%b8/%e6%b5%ae%e5%8a%9b%e6%88%91%e7%9f%a5%e9%81%93 4、The Sink or Float測驗 https://www.youtube.com/watch?v=OdGRHa0jGjw</p>
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