

單元五 鍊鍊鬆餅

週次	內容大綱	備註
第一週	鋁線的基礎練習，尖嘴鉗使用練習。	
第二週	鋁線製作創意小樹，並寫下感謝的話布置在小樹上。	
第三週	鋁線的進階練習，完成手鍊配件。	
第四週	練習八角剪及六角剪，為下週鬆餅做準備。	
第五週	學會自己做鬆餅，並利用孔版原理在鬆餅上撒出糖霜花樣。	

主題四

主題名稱	鍊鍊鬆餅	教學設計者	簡佳倚、文湘娥、謝依倩、王怡涵	
教學對象	四年級下學期	教學節次	10 節課(40 分鐘/節) 共 400 分鐘	
能力指標	1-2-1、2-2-3、2-2-7、3-2-11			
學習目標	1.學習用鋁線做出三度空間的造型。 2.利用折剪做出遮罩，裝飾鬆餅。 3.創作驚喜送給家人，來表達對家人的愛。			
核心素養	A1、B1、C2			
學習表現	1-II-3、2-II-5、3-II-2			
學習內容	視 E-II-2、視 E-II-3、視 A-II-1、視 P-II-2			
教學方法	示範教學法、講述法、實做教學法			
英語學習 content vocabulary / sentences patterns	單字： hold the wire、bending the wire、cut through the wire、make the wire spiral 工具材料： Needle nose pliers, one millimeter aluminum wire、bracelet、pancake flour、Eggs、Oil、 Milk or water、electronic scale、measuring cup、chopsticks、frying pan、spatula 句型： I use <u>pink</u> wires to make this card holder because my mom likes <u>pink</u> . This is my card. I am thankful for my mom/dad/grandpa/grandma.			
第週 教學活動-活動一		教學	教具	評量

	時間		
<p>一、 教學準備: 學生-鉛筆盒 教師-1.5mm 鋁線每生 100cm、1mm 鋁線每生 20cm、尖嘴鉗每生 1 支、小袋子每生 1 個、PPT (Anna Jarvis)、工具閃示卡、實物投影機</p> <p>二、 引起動機:</p> <p>The Mother of Mothers Day: Anna Jarvis PPT https://www.youtube.com/watch?v=6zHMANyTYbk ET: Do you know the story about mother's day? ST: Let's watch a video+. ST:原來 Anna Jarvis 就是母親節的創始人! ET: Do you celebrate Mother's Day? I write the Mother's Day card. ST: Yes. But my card is very special. ET:How special ? ST:I have a holder for the card. Look ! (手拿成品)</p> <p>三、 發展活動:</p> <p>1. 學生利用毛根做簡單的螺旋狀練習</p> <p>a. 螺旋 circling b. Card holder</p> <p>ST: But we need to practice first with pipe cleaner. ST 示範 ET: Then let's practice to make a card holder.</p> <p>2. 鋁線創作工具介紹</p> <p>a. 尖嘴鉗(Needle nose pliers): 用來夾住鋁線(hold the wire)、彎折鋁線(bending the wire)、剪斷鋁線(cut through the wire) b. 1.5mm 鋁線(1.5 millimeter aluminum wire), 有各種顏色, 可做造型上的搭配 c. 1mm (one millimeter aluminum wire)鋁線, 連結配件、捆綁用</p> <p>ET: Let's start working. So what do we need to make the card holder ?</p> <p>3. 拿取材料</p> <p>a.1.5mm 鋁線 20cm, 每生 5 條顏色自選 b.1mm 鋁線 20cm, 每生 1 條</p> <p>4. 開始製作</p> <p>a. 用尖嘴鉗將 1.5mm 鋁線各別在一端捲成回紋 b. 將五支回紋另一端對齊, 並以尖嘴鉗將 1mm 線將五支整齊綁合, 尾端餘約 4cm c. 分別用尖嘴鉗將五條線尾外捲單圈</p> <p>5. 將零件們裝進小袋子裡, 寫上姓名下週備用</p> <p>ST: F irst, 用尖嘴鉗將 1.5mm 鋁線各別在一端捲成回紋</p>	10	PPT	學生能專心聆聽
	5	毛根	學生能用毛根做出兩種指定造型
	5	工具閃示卡	學生能認真聽講
	10	鋁線、尖嘴鉗	學生能剪取指定的鋁線長度與數量
	40	實物投影機	學生能完成鋁線的回紋和單圈
		小袋子	

<p>ET: Okay, use the needle nose pliers to make wire spirals.</p> <p>ET: Wow, it's so cute. It looks like a lollipop.</p> <p>ST: 對阿, 要做五個棒棒糖才夠喔!</p> <p>ET: How about the other side?</p> <p>ST: 另一邊外捲單圈</p> <p>ET: Like a circle ?</p> <p>ST: Yes ! Small circles.</p> <p>課間巡視</p> <p>ET: So five lollipops are ready. What are we going to do next?</p> <p>ST 示範將五支回紋另一端對齊，並以尖嘴鉗將 1mm 線將五支整齊綁合，尾端餘約 4cm</p> <p>ET: Tie them up with thin wire. So everyone come to the front and cut the thin wires.</p> <p><u>What do we need</u></p> <p>Needle nose pliers</p> <p>1.5 millimeter aluminum wire</p> <p>one millimeter aluminum wire</p> <p>bag</p> <p><u>What do we do</u></p> <ol style="list-style-type: none"> 1. Make 5 wire spirals 2. Tie them up 3. Make the other end a circle 4. Put them in the bag 5. Write down the name <p>收拾桌面、整理教室。</p> <p>ET: Now it's time for cleaning.</p> <p>Clean up song 6:00</p> <p>https://www.youtube.com/watch?v=18820-BL1OY</p> <p>Clean up song 3:00</p> <p>https://www.youtube.com/watch?v=Q3H2ppdzPzg</p> <p>ET: Are you done with the cleaning?</p> <p>Ss: Yes, we are done. (分組跟老師報告，老師檢查)</p> <p>ET: Good job. You may take a break.</p> <p>四、統整活動</p> <p>發表作品：</p> <p>Hi, my name is _____</p> <p>This is my work.</p> <p>I use <u>pink</u> wires to make this card holder because my mom likes <u>pink</u>.</p> <p>Goodbye song</p>	10	學生能說出選擇色彩的原因
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https://www.youtube.com/watch?v=0LDArAJf7-c			
第週 教學活動-活動二	教學時間	教具	評量
<p>一、 教學準備: 學生-簡單著色用具、剪刀 教師-淺色卡紙(名片大小)每生 5 張、繪本影片、樹的裝製藝術 ppt</p> <p>二、 引起動機: 繪本: Bear says thank you https://www.youtube.com/watch?v=tdQOhkd5BiY ST: Do you remember what we did last week ? Ss:..... ST: You are so smart. 我們卡片上要寫出我們感謝的話 例句: Thank you for everything, <u>Mom/Dad/Grandpa/Grandma.</u> <u>Mom/Dad/Grandpa/Grandma</u>, thank you for being you. To the world's number one <u>Mom/Dad/Grandpa/Grandma.</u> You are the best <u>Mom/Dad/Grandpa/Grandma.</u> Take some rest, <u>Mom/Dad/Grandpa/Grandma.</u> Thank you for taking me to school, <u>Mom/Dad/Grandpa/Grandma.</u> Take good care of yourself. I love you. Thanks for being there, <u>Mom/Dad/Grandpa/Grandma.</u> Here is the gift for you. Happy Mother's Day. You are warm and soft. You smell sweet like roses. You have pretty <u>hair/eyes.</u> Your daughter/son, <u>York.</u></p> <p>三、 發展活動:</p> <p>1. 葉與樹的各種聯想 ppt, 鼓勵學生創意思考 ET: Can I cut flowers, animals, or something else? ST: Yes ! Five color papers for everyone. ET: You can think first.</p>	10	繪本影片	學生能說出母親節想對親人說的話
<p>2. 發下彩色卡紙, 在卡紙上剪出圖形, 寫下對家人的感謝與祝福 (確認每組都拿好紙張) ST: Let's start.</p>	20	淺色卡紙	學生能剪出設計的樣式
<p>3. 發下上週的材料</p> <ol style="list-style-type: none"> 徒手將五個單圈調整為穩固的底座 徒手將回紋端做出傘形調整 將回紋調整縫隙, 使卡紙可以放進回紋裡 完成感謝小樹 <p>(創作時課巡視)</p>	30		學生能將卡紙固定在支架上 學生能讓小樹平衡立起

<p><u>What do we do</u></p> <p>Make these 5 wire circles to be the base</p> <p>Make the spirals like an umbrella</p> <p>Shape the spirals and put the cards into the spirals</p> <p>Finish your tree card</p> <p>收拾桌面、整理教室。</p> <p>ET: Now it's time for cleaning.</p> <p>Clean up song 6:00</p> <p>https://www.youtube.com/watch?v=18820-BL1OY</p> <p>Clean up song 3:00</p> <p>https://www.youtube.com/watch?v=Q3H2ppdzPzg</p> <p>ET: Are you done with the cleaning?</p> <p>Ss: Yes, we are done. (分組跟老師報告，老師檢查)</p> <p>ET: Good job. You may take a break.</p> <p>四、統整活動</p> <p>Hello, my name is <u>York</u>. This is my card for my mom/dad/grandpa/grandma. <u>I am thankful</u> for my mom/dad/grandpa/grandma.(選一句分享)</p> <p>Goodbye song</p> <p>https://www.youtube.com/watch?v=0LDArAJf7-c</p>	10		學生能念出自己的卡片內容
教學活動-活動三	教學時間	教具	評量
<p>一、教學準備: 學生-鉛筆盒</p> <p>教師- 1.5mm 鋁線每生 100cm、1mm 鋁線每生 12cm、尖嘴鉗每生 1 支、項鍊扣頭組每生 1 組、珠寶盒、用具閃示卡、實物投影機</p> <p>二、引起動機:</p> <p>飾品與女人的相關話題</p> <p>說明今天要做一條項鍊 necklace 送給媽媽</p> <p>ET: Do you know you can make a jewelry for you mom? I have a clip for you.</p> <p>15 beautiful jewelry crafts you can DIY(0'00-3'07)</p> <p>https://www.youtube.com/watch?v=6U1uuRbGB64</p> <p>三、發展活動:</p> <p>1. 複習工具、介紹今天使用的材料:</p> <p>a. 尖嘴鉗: 用來夾住鋁線、彎折鋁線、剪斷鋁線</p> <p>b. 1.5mm 鋁線, 有各種顏色, 可做造型上的搭配</p>	10	珠寶盒	學生能專心聽講
	5	用具閃示卡	學生能說出用具的功用

<p>c. 1mm 鋁線，連結配件、捆綁用 d. 項鍊扣組(塑膠皮繩及扣環)</p> <p>ET: Wow, these necklace are so beautiful. Can we use it to make the necklace (手拿 1mm 鋁線)? ST: Why not ! Let's see what we have here. (review flash cards)</p> <p><u>What do we need</u> Needle nose pliers 1.5millimeter aluminum wire 1 millimeter aluminum wire catches & cord</p> <p>ET: (ST 示範時同時說)Make a loop and bend it again and again. ET: Wow, what does it look like ? Ss: ST: So it's your turn.</p> <p>2. 練習折出玫瑰花：Make wire roses a. 教師示範利用尖嘴鉗彎折出玫瑰 use needle-nose plier to make a rose a. 學生剪取 1.5mm 鋁線 1 條(12cm) cut one 1.5 mm wire to length of 12cm b. 學生練習作出一個玫瑰 students try to make a rose</p> <p>課間巡視: What do you want to make? What is this ? (學生完成後到前面集合) Sharing: I want to make a <u>flower</u> but/and it is a <u>snail/flower</u>.</p> <p>3. 更多彎折的可能 make more curves or waves a. 教師引導內彎、外彎，或捲曲 bend the wire inward and outward or curves b. 學生剪取 1.5mm 鋁線 1 條(12cm) cut one 1.5 mm wire to length of 12cm c. 學生探索創作，彎摺出一個花樣 make your own design d. 集合討論學生的發現，同儕相互欣賞 peer sharing</p> <p>ST:Good job ! Bend the wire inward and outward or curves. ET: Let's try ! Ss 操作 行間巡視 Sharing:</p>	<p>10</p> <p>15</p>	<p>1.5m m 鋁 線、實 物投 影機</p> <p>1.5m m 鋁 線</p>	<p>學生能利用尖嘴鉗做出一個平面花朵</p> <p>學生能做出內彎以外的鋁線造型</p> <p>學生能說出作品的特色</p>
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<p>I want to make a <u>flower</u> but/and it is a <u>snail/flower</u>.</p> <p>4. 做出項鍊的配件 decorate the necklace a. 學生剪取 1.5mm 鋁線 5 條(每條 12cm) ,可自由搭配色彩 cut 5 of 1.5 mm wire of length of 12cm with different colors b. 彎摺出 1~5 個配件 make 1~5 accessories</p> <p>5. 將配飾依序串進繩子裡, 頭尾接上扣環及繩子, 完成項鍊 String all the accessories to make the necklace c. 將五個配件依順序排成一排 Make 5 accessories in one line. d. 將配飾依序串進繩子裡 String them on the cord e. 頭尾接上扣環及繩子 connect the catches and cord</p> <p>ST: String them on the cord.然後將繩子的一端放進扣環裡, 用 needle nose plier 夾緊扣環(教師示範) ET: Come to the front,and get the cord.</p>	<p>20</p> <p>10</p>	<p>1.5m m 鋁 線</p> <p>1mm 鋁線</p>	<p>學生能用鋁線 摺出 5 個小花 樣</p> <p>學生能正確連 接 5 個配件及 鍊條扣頭</p>
<p><u>What do we do</u></p> <p>Make wire roses make more curves or waves decorate the necklace combinationt all the accessories to make the necklace</p> <p>(教師行間巡視)</p> <p>ET: What's it about? Ss:</p> <p>收拾桌面、整理教室。</p> <p>ET: Now it' s time for cleaning. Clean up song 6:00 https://www.youtube.com/watch?v=18820-BL10Y Clean up song 3:00 https://www.youtube.com/watch?v=Q3H2ppdzPzg ET: Are you done with the cleaning? Ss: Yes, we are done. (分組跟老師報告, 老師檢查) ET: Good job. You may take a break.</p>			
<p>四、 統整活動</p> <p>試戴與拍照, 每一組一起拍一張</p> <p>ET: Now let's try it on ! Have a good pose. Goodbye song https://www.youtube.com/watch?v=OLDArAJf7-c</p>	<p>10</p>	<p>實物 投影 機</p>	<p>學生能在試戴 手鍊後略做調 整</p>

教學活動-活動四	教學時間	教具	評量
<p>一、 教學準備: 學生- 剪刀、課本 教師-蛋糕製作短片、色紙每生 7 張、實物投影機、六角折剪紙範本數個</p> <p>二、 引起動機： 萬花筒 kaleidoscope 與幾何對稱 預告下週要做鬆餅，所以今天先做鬆餅上糖霜的花樣 make the toppings of pancake</p> <p>巧克力蛋糕上放紙格子，撒粉後再拿開！ https://www.youtube.com/watch?v=fbS8v8lfn8I ET: Mother's Day is coming ! How do you celebrate Mother's Day ? ST: We have a big meal and a yummy cake on Mother's Day. ET: What kind of cake do you like, chocolate, strawberry or bananas cake ? ST: I like chocolate cake the most. ET: I have a video about how to make a chocolate cake. ST: Show me, please !</p> <p>巧克力蛋糕上放紙格子，撒粉後再拿開！ https://www.youtube.com/watch?v=fbS8v8lfn8I ET: Let's cut some papers like this and make our cake yummiier !(point at the picture)</p> <p>三、 發展活動： origami snowflake https://www.firstpalette.com/craft/paper-snowflake-4sides.html</p> <p>1. 複習對稱對折剪(1 張)，教師提問”剪連接邊與非連接邊，效果有什麼不一樣？請學生操作後回答(連接邊的圖案會是兩倍的大小，並且左右鏡像呈現；非連接邊的圖案則仍是獨立存在的) ST: First, every student gets one piece of paper and cut a square. ET: Go ! Cut a square. 課間巡視 拿兩個作品比較 ET: They both cut a triangle. But when we open it, they are different ! Why ? Ss:..... ST 總結</p> <p>2. 八角折剪(嘗試 3 張)，對折 3 次之後，剪出大小不同的面積與形</p>	<p>蛋糕製作短片</p> <p>色紙</p>	<p>10</p> <p>10</p>	<p>學生能說出蛋糕上糖霜顯現圖形的原理</p> <p>學生能回答老師的問題</p>

<p>狀 8 sided snowflake</p> <ol style="list-style-type: none"> 試著剪多一些面積掉 剪少一些、圖案小的面積 大與小同時呈現的狀態 <p>3. 六角折剪(3張) 6 sided snowflake</p> <p>6 sided snowflake</p> <p>https://www.youtube.com/watch?v=a3mpmly9b2o</p> <p><u>What do we do</u></p> <p>Fold the paper into the half like an triangle</p> <p>Fold the paper again to make a smaller trangle</p> <p>Make a triangle like another one</p> <p>Fold the triangle over the top</p> <p>Cut the paper</p> <ol style="list-style-type: none"> 根據教師的指導，成功折出六角折(實物投影機) 挑選老師提供的花樣，試著剪剪看兩種雪花 自創一個花樣 <p>收拾桌面、整理教室。</p> <p>ET: Now it's time for cleaning.</p> <p>Clean up song 6:00</p> <p>https://www.youtube.com/watch?v=18820-BL1OY</p> <p>Clean up song 3:00</p> <p>https://www.youtube.com/watch?v=Q3H2ppdzPzg</p> <p>ET: Are you done with the cleaning?</p> <p>Ss: Yes, we are done. (分組跟老師報告，老師檢查)</p> <p>ET: Good job. You may take a break.</p> <p>四、 統整活動</p> <p>將今天的創作平整的夾在課本裡，並決定下週鬆餅要使用的圖案是哪一個</p> <p>Goodbye song</p> <p>https://www.youtube.com/watch?v=OLDARAJf7-c</p>	<p>色紙</p> <p>色紙</p>	<p>20</p> <p>30</p> <p>10</p>	<p>學生能依照指示剪出八角折剪</p> <p>學生能依照指示剪出八角折剪</p> <p>學生能剪出至少一個雪花</p> <p>學生能選擇一個最喜歡的圖樣</p>
<p>教學活動-活動五</p>	<p>教學時間</p>	<p>教具</p>	<p>評量</p>

<p>一、 教學準備: 學生- 教師-影片、卡式爐(及瓦斯)4 組、平底鍋(附鍋鏟)4 個、鬆餅食材(鬆餅粉、雞蛋、沙拉油、牛奶)、電子磅秤*1、量杯*6、筷子*6 雙</p> <p>二、 引起動機： 選擇一：孩子下廚煮給家人吃這一類的影片或故事 選擇二：教人料理鬆餅的節目 How to make easy pancakes https://www.youtube.com/watch?v=LWuuCndtJr0 Pancakes,Pancakes ! by Eric Carle https://www.youtube.com/watch?v=vwPmTEApOYM Mr. Wolf’s Pancakes https://www.youtube.com/watch?v=6_VosU2oLgY</p>	10	影片	學生能專心欣賞影片
<p>三、 發展活動：</p> <p>1. 材料介紹 <u>What do we need</u></p> <ol style="list-style-type: none"> 鬆餅粉 Pancake flour 雞蛋 Eggs 沙拉油 Oil 牛奶(或開水) Milk or water 電子磅秤 electronic scale 量杯 measuring cup 筷子 chopsticks 平底鍋 frying pan 鍋鏟 spatula <p><u>What do we do</u> Make the batter Cook the pancake Serve the pancake with favorite toppings</p> <p>2. 調製小組要用的鬆餅麵糊(一組調一份)</p> <ol style="list-style-type: none"> 秤鬆餅粉 100g，雞蛋一顆，牛奶 50ml 拿回小組 全部一起攪拌至完全平均 whisk them evenly until the batter thickens 靜置 15 分鐘 Let the batter rest for 15 minutes 	10	鬆餅 食材	
<p>3. 教師示範煎鬆餅</p> <ol style="list-style-type: none"> 放入少許油，熱鍋 Add oil to pan 倒入適量麵糊 Pour the batter into the pan，中小火徐徐加熱 Heat the pan over a medium heat 麵糊表面冒出小氣泡時翻面 Flip the pancakes when the bubbles burst. 凝固熟透即可起鍋 When it turns golden brown slide it out of the pan 	10	卡式 爐、平 底 鍋、電 子磅 秤、量 杯、筷 子	學生能按照步驟調出麵糊

<p>4. 學生開始煎鬆餅 (教師行間巡視)</p> <p>5. 發下上週剪好的色紙，遮蓋在鬆餅上方，撒上糖霜 sprinkle the sugar</p> <p>6. 將鬆餅放入容器中，帶回家與家人分享。</p> <p>收拾桌面、整理教室。 ET: Now it's time for cleaning. 播放 Clean Up is fun 的歌 https://www.youtube.com/watch?v=gPq7wzGEjqE ET: Are you done with the cleaning? Ss: Yes, we are done. (分組跟老師報告，老師檢查) ET: Good job. You may take a break.</p> <p>四、 統整活動</p> <p>將5週所準備的卡片、手鍊及鬆餅一起帶回家，一起唱母親節的歌曲 My Mom is a superstar https://www.youtube.com/watch?v=i49icozXSsg 母親節的歌(Mommy) https://www.youtube.com/watch?v= VaSqxGc4gU Goodbye song https://www.youtube.com/watch?v=0LDArAIf7-c</p>	<p>20</p> <p>10</p> <p>10</p>	<p>餐盒</p>	<p>學生能按照步驟煎出鬆餅</p>
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