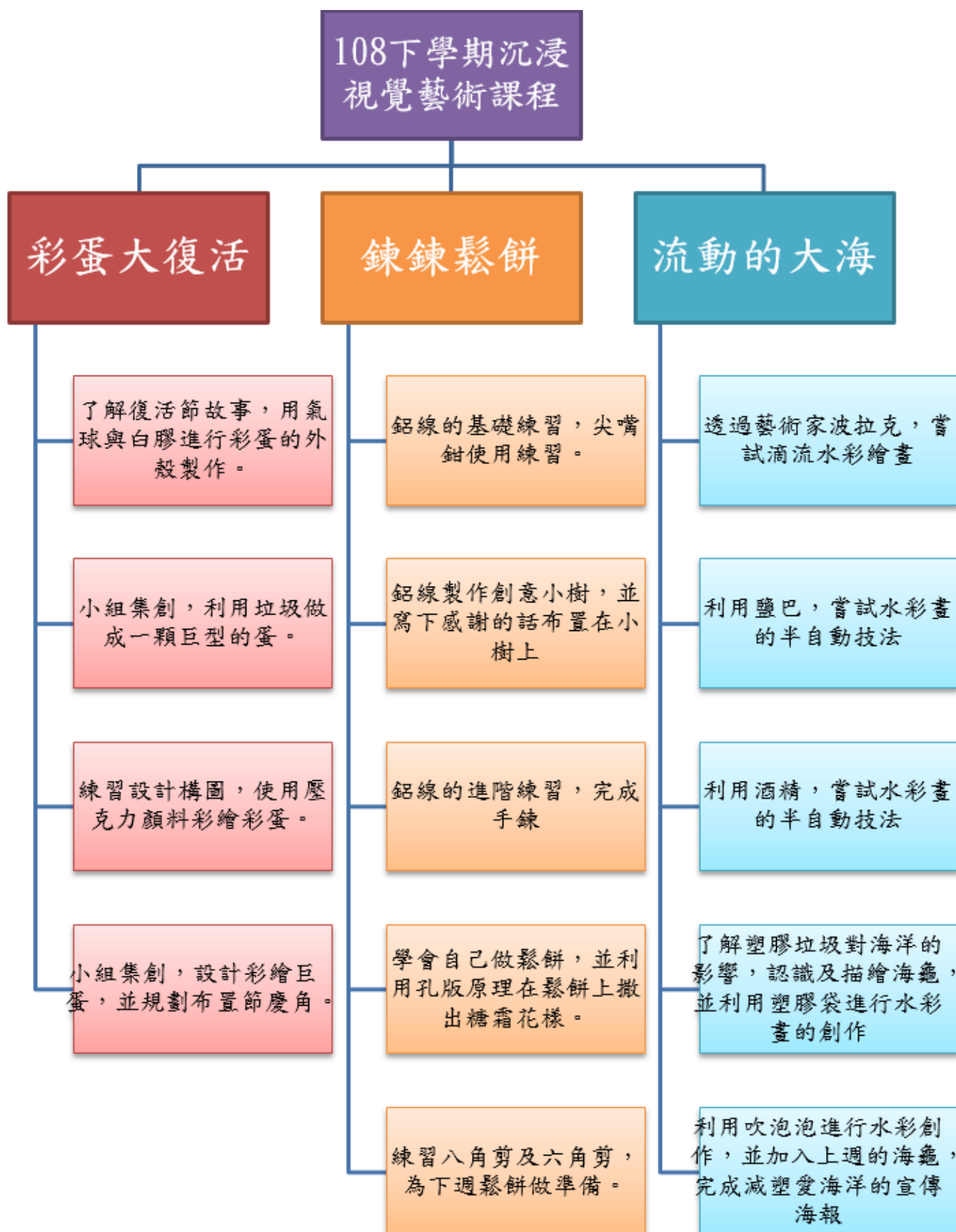


# 雲林國小 108 學年度四年級第二學期課程架構及教案設計



## 單元四 彩蛋大復活

週次	內容大綱	備註
第一週	了解復活節故事，用氣球與白膠進行彩蛋的外殼製作。	
第二週	練習設計構圖，使用壓克力顏料彩繪彩蛋。	
第三週	小組集創，利用垃圾做成一顆巨型的蛋。	
第四週	小組集創，設計彩繪巨蛋，並規劃布置節慶角。	

### 主題四

主題名稱	彩蛋大復活	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	8 節課(40 分鐘/節) 共 320 分鐘
能力指標	1-2-4、1-2-5、2-2-7、3-2-10		
核心素養	A2、B3、C2、C3		
學習表現	1- I -6、2- II -2、3- II -2、3- II -3		
學習目標	1. 了解復活節的活動，以及情感上的意義。 2. 利用不同材質進行個人及團體的立體造型創作。 3. 設計具裝飾性的彩蛋，展現自我風格。 4. 結合英語課程布置慶典用的節慶角。		
教學方法	示範教學法、合作學習法、實做教學法		
英語學習 content vocabulary / sentences patterns	Language for learning: <b>活動一</b> Easter egg, I like <u>pumping the balloons</u> the most. <u>Pumping the balloon</u> is the most difficult part.  <b>活動二</b> Find the eggs    Paint the eggs    Hide the eggs Which design do you like the best? Circle the one you like What are you drawing on the egg? I'm drawing _____ on the egg. Clean up the brush right away. Put the light color first, from light to dark <b>活動三</b> miniature show, giant eggs,		

Where are they?

They're at \_\_\_\_\_. (staple, bike, swimming pool, yolk, hamburger)

Where is the giant rabbit

It is on the squire.)

monkey/bear/frog/slug/duck/hippo/bunny/fish/dog/elephant)

How do you feel when you see the giant thing ?

I feel good. (appy, nice, sad, cool...)

#### 活動四

Where are we going to put our giant eggs

Let's put them in the central hallway. (classroom, park, office.....)

Easter eggs on the central hallway.

Easter egg hunting, Easter Bunny

### Language of Learning:

#### 活動一

#### What do we do

1. Pump the balloons to the size of eggs.
2. Cut the milk box and make it a glue box of 5cm high
3. Mix the glue and water. One drop of glue go with 40cc water and stir evenly.
4. Cover the balloon with 3 kinds of paper in order.
5. put one the name sticker on the egg

#### What do we need

balloon pump, balloon, kitchen paper, glue, newspaper, copy paper, name sticker, scissors, milk box

#### 活動二

What do we do

#### Worksheet

A.design how to dye(color) the egg

B.finish the worksheet

C.teachers and students vote for their favorite design

#### Paint the egg with acrylic color

1. Cover the hole with paper tape
2. Draw the design on your Easter egg.
3. Paint it with acrylic color
4. color it with no water
5. Clean up the brush right away.
6. Put the light color first, from light to dark
7. Those who finish painting can get the glitter glue.

#### Wrap up

1. Is it different between the designing and painting?

2. Tell us why there is a heart on the worksheet but not on your Easter egg?

**活動三**

**What do we need**

the things on the recycling box, clean trash, scissors  
wide tape, narrow tape with a tape dispenser, PPT, glue, pot,  
and paper

**What do we do**

1. Find the big things in the box
2. Pack the big recyclings a shape of a giant egg.
3. Put the small recyclings on the egg
4. Pack it like an egg.

ET: how do you shape it like an egg?

Ss: We pack the big things first and shape it look like an egg with small things.

**活動四**

**What do you need**

Pencils, Nylon line  
Arcrylic colors 5ml\*10、egg holder \*6、  
Space for showing

**What do we do?**

- a. Discuss with your table friends
- b. Draw the design on the worksheet
- c. Draw the design on the giant egg
- d. Put on arcrylic colors on the giant egg
  - \*No water with arcrylic color
  - \*Clean up the water color brush right away
  - \*Use the light color first

第週 教學活動-活動一	教學時間	教具	評量
<p>一、 教學準備: 學生-牛奶空盒、剪刀 教師-小氣球每生*1、打氣筒*6、大包白膠*1、 廚房紙巾*1 捆、報紙一疊、影印紙*30 張、量杯(40c.c.以上)、兔子做彩蛋 Clip、故 事 PPT</p> <p>二、 引起動機: ET: Joy, what did you do on Chinese New Year? ST: I went back to my home in Chaiyi and had a feast with my family.How about you? ET: I did the same and gave lucky money to my parents and kids. How about you, students?</p>	10 m	Clip	學生能回答問題

<p>Ss: .....</p> <p>ET: I love festivals and holidays so much. What comes after Chinese New Year?</p> <p>ST: 元宵節，然後....</p> <p>SS: 清明節、兒童節</p> <p>ET: and Easter in April.</p> <p>ST: on what day?</p> <p>ET: It's on 4/12 this year.</p> <p>ST: Wow, It's coming soon! What do we do on Easter?</p> <p>SS: .....</p> <p>ET: So Easter is all about Bunny, egg hunt and candy. Why is there a bunny for Easter?</p> <p>ST: Why not doggie, kitty or Mickey mouse?</p> <p>ET: Good questions! I have a story about Easter bunny. (play the clip first) (預告學校復活節的活動(請用非美勞課的時間實施))</p> <p>三、 發展活動：</p> <p>回到 PPT 第二頁</p> <p>ET: So what do we do to make Easter eggs?</p> <p>ST: 做吹氣動作</p> <p>ET: blow the balloon?</p> <p>ST: yes!</p> <p>ET: what do we do first?</p> <ol style="list-style-type: none"> <li>1. 將汽球用打氣筒打至彩蛋大小 <ol style="list-style-type: none"> <li>a. 先拉鬆氣球</li> <li>b. 使用打氣筒時，手要捏緊氣球的出口避免洩氣</li> <li>c. 老師利用實物投影機示範氣球打結的方法</li> </ol> </li> <li>2. 剪開牛奶盒，成為高度大約 5cm 的膠水盆</li> <li>3. 調製膠水：充分攪拌至完全均勻到 白膠：水=1:4 的比例</li> <li>4. 貼上外層紙張：老師提供三種紙張，請學生依序使用，把氣球鋪滿三層紙張 <ol style="list-style-type: none"> <li>a. 廚房紙巾</li> <li>b. 報紙</li> <li>c. 影印紙</li> </ol> </li> </ol> <p>ST 示範</p> <p>ET ST 課間巡視提醒孩子要將紙撕碎</p> <ol style="list-style-type: none"> <li>5. 在最後一張紙寫上班級姓名然後貼在氣球底部，放置角落陰乾</li> </ol> <p>收拾桌面、整理教室。</p> <p>ET: Now it's time for cleaning.</p>	<p>60m</p>	<p>PPT</p> <p>小氣球、打氣筒</p> <p>牛奶盒、剪刀、白膠</p> <p>廚房紙巾、報紙、影印紙</p>	<p>學生能自己將氣球打氣</p> <p>學生能調出均勻的膠水</p> <p>學生能將氣球表面的三層紙貼完整</p>
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ET: Joy, Can I put some shapes on the egg?

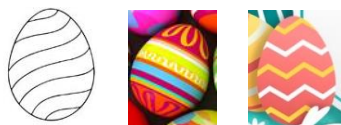
ST: Sure, whatever you like. Just keep it simple.

1. 線條的排列與反覆

- a. 直線 line：規律 order、不規律 disorder  
垂直線 verticle line、水平線 horizon  
、斜線 slash



- b. 曲線 curve line：大波浪 big wave、小波浪 small wave、鋸齒狀 sawtooth line



2. 形狀的排列與反覆

The arrangement and repetition of shapes

- a. 對稱的排列 symmetric



- b. 隨性的排列 not symmetric



3. 設計彩蛋圖案，完成學習單，並邀請老師、同學圈選喜歡的設計風格。

- a. design how to dye(color) the egg  
b. finish the worksheet  
c. teachers and students vote for their favorite design

ET: Wow, look like everyone finishes designing.

This is \_\_\_'s work. Which design do you like the best?

(ET 拿學習單問大家的意見)

ET: (問作者) which design do you like the best?

ST: 大家喜歡都不一樣，現在我們把自己的設計拿給朋友勾選。看看你的設計裡哪一個最受歡迎。

ET: Good idea, one minute for you.Circle one only.

4. 用壓克力完成彩繪彩蛋 paint the egg with acrylic color

- a. 先將底部的小洞用紙膠封起來  
Cover the hole with paper tape  
b. 鉛筆畫上著色的位置  
Draw the design on your Easter egg.

學生能邀請同學欣賞自己的設計，也參與別人的作品

35

壓克力顏料、尼龍筆、紙

學生能完成蛋的彩繪

<p>c. 使用壓克力上色 Paint it with acrylic color</p> <p>(1) 不加水，直接濃彩上色 color it with no water</p> <p>(2) 壓克力乾掉(約 5 分鐘)就不溶於水，所以一旦不使用就要將筆洗乾淨 Clean up the brush right away.</p> <p>(3) 盡量先從淺色開始上色 Put the light color first, from light to dark</p> <p>(4) 先完成的學生可領取亮片膠作局部裝飾 Those who finish painting can get the glitter glue. (教師行間巡視)</p> <p>收拾桌面、整理教室。 ET: Now it's time for cleaning. Clean up song 6:00 Clean up song 3:00 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>教師將平面設計與其作品同時呈現並提問 平面設計與立體蛋型的彩繪有什麼不一樣?(難度較高、畫一圈後圖案會相連接)</p> <ol style="list-style-type: none"> <li>1. Is it different between the designing and painting?</li> <li>2. Tell us why there is a <u>heart</u> on the <u>worksheet</u> but not on your <u>Easter egg</u>?</li> </ol> <p>Goodbye song</p>	10	膠、調色盤	學生能說出創作過程中的想法
第週 教學活動-活動三	教學時間	教具	評量
<p>一、 教學準備:</p> <p>學生- 資源回收物(班上那桶)、乾淨的垃圾、剪刀 the things on the recycling box, clean trash, scissors</p> <p>教師-寬版膠帶*6、窄版膠帶*6(有膠帶台更好)、各式彩蛋 ppt、大包白膠*0.5、盆子*6、A4 空白紙張*6、微型展與霍夫曼作品照片 wide tape, narrow tape with a tape dispenser, PPT, glue, pot, and paper</p> <p>二、 引起動機：</p>			



<p>ET: How's your weekend?  ST: Not bad. How about you?  ET: Great. I went to a miniature show. They are so cute.  ST: Miniature show?  (將圖片一張一張 show 出，問學生 where are they? They're at _____. (staple, bike, swimming pool, yolk, hamburger)  ST: So cute! You have small people: I have a big duck.  ET: They must be very cute, too. Show me, please.  (show 出一張一張 ppt，問學生 where is the giant <u>rabbit</u>  學生回答 it is on the <u>squire</u>.)  monkey/bear/frog/slug/duck/hippo/bunny/fish/dog/elephant)  How do you feel when you see the giant thing ?</p>	<p>10</p>	<p>pictures</p>	<p>學生能觀察後 說出感覺</p>
<p>三、 發展活動：</p> <p>ST: We can design our giant eggs like that,too.  ET: How to start? What do we use to make an giant egg?  ST: We use recyclings. There they are!  ET: Make an giant egg with the things in the recycleing box?  ST: Yes, one group makes one giant egg.  ST: First, find the big things in the box.  ET: Then?  ST: Pack the big ryclings a shape of a giant egg.  ET: But it is not egg like.  ST: Put the small recyclings on the egg.  ET: I see. Then pack it like an egg.</p> <p>What do we do?</p> <ol style="list-style-type: none"> <li>1. Find the big things in the recycleing box</li> <li>2. Pack them into a giant egg</li> <li>3. Put small things on the egg</li> <li>4. Shape it look like an egg</li> <li>5. Discuss with the table friends how to make it look like an egg.</li> <li>6. Check the edges of the giant egg from different angles</li> <li>7. Glue one piece of paper on the egg</li> <li>8. Air dry the paper</li> <li>9. Put on the name stcker</li> </ol> <p>1. 利用資源回收的垃圾、紙類揉捏塑形，再利用透明膠帶捆成一顆”巨蛋”(每一組做一顆)  Make a giant egg with the recyclings, packed the recycling paper and wrap the recyclings as a shape of an egg with transparent type.</p>	<p>5</p>	<p>各式彩蛋 ppt</p>	<p>學生能專心聽講</p>

<p>a. 先找大體積的物體，堆疊結合成大致的長寬高</p> <p>1.Find the big things first</p> <p>2.Pile up the things</p> <p>b. 接著用較小或可以捏塑的物體，填充在需要的地方</p> <p>1. Use the smaller recyclings or something can be shaped and stuff inside the egg</p> <p>2. 小組討論如何讓巨蛋更圓滑？</p> <p>How to make the egg fell smooth</p> <p>從不同角度去檢視邊緣線的平順程度，利用紙張將下凹的地方補齊</p> <p>Check the edges of the giant egg from different angles</p> <p>3. 調白膠水將巨蛋貼上一層紙</p> <p>Cover one piece of paper with glue on the egg</p> <p>4. 陰乾，貼上姓名標籤</p> <p>Make it air dry and put on the name sticker</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>Clean up song 3:00</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>將六顆蛋放在教室前面，大家一起討論哪一顆最有蛋形</p> <p>ST: 你們要回去討論要怎麼設計你們復活節的巨蛋</p> <p>ET:We will put the giant eggs at school. Every one will see them.</p> <p>Goodbye song</p>	<p>20</p> <p>10</p> <p>25</p> <p>10</p>	<p>資源 回收 物、剪 刀、寬 版膠 帶、窄 版膠 帶</p> <p>白 膠、盆 子、 A4 空 白紙 張</p>	<p>學生能參與小組創作活動</p> <p>學生能完成巨蛋的塑型</p> <p>學生能欣賞它人作品，說出優點或缺點</p>
<p>第週 教學活動-活動四</p>	<p>教學</p>	<p>教具</p>	<p>評量</p>

	時間		
<p>一、 教學準備：學生-鉛筆、尼龍筆 教師-壓克力顏料 75ml*10、紙軸(蛋架)*6、展覽空間</p> <p>二、 引起動機：</p> <p>ET: To check if you all remember what easter is about, let's play a 4-corner game. ST: Game! but I forgot! ET: Don't worry! I have a clip to call your memory back.</p> <p>做答案字卡孩子回答以下問題 (4 corner)</p> <ol style="list-style-type: none"> <li>1. Festival about bunny, egg, candy? what is that? (Chrstitmas, Halloween, Easter, Thanksgiving)</li> <li>2. What day do we celebrate Easter? (12/25, 4/12, /5/5, 10/31)</li> <li>3. Where do people celebrate Easter? (U.S.A, UK, Japan, China)</li> <li>4. What country starts to share Easter Bunny stories? (U.S.A, UK, Germany, Japan)</li> <li>5. What part of the bunny chocolate do people eat first? (head, ears, tail, legs)</li> <li>6. In Sweeden and Finland, what do kids do on Easter? (dress up and go door to door asking for candy , pray, decorate trees, eat turkey)</li> </ol> <p>三、 發展活動：</p> <p>ET: (拿出一個彩蛋，摸頭思考狀) ST: What's wrong, Karen? ET: I want to have my giant egg more special but I don't know how. ST: Why don't you talk to your table friends? ET: Good idea, I'll talk to my table friends and make the girant egg more special.</p> <ol style="list-style-type: none"> <li>1. 小組討論，如何讓彩蛋更具特色？</li> <li>2. 修正構圖後，用鉛筆在巨蛋上面確定彩繪的範圍及位置</li> <li>3. 使用壓克力上色 <ol style="list-style-type: none"> <li>a. 不加水，直接濃彩上色</li> <li>b. 壓克力乾掉(約 5 分鐘)就不溶於水，所以一旦不使用就要將筆洗乾淨</li> <li>c. 盡量先從淺色開始上色 (教師行間巡視)</li> </ol> </li> </ol>	<p>10</p> <p>60</p>	<p>Clip 、答案 字卡</p> <p>壓克 力顏 料、鉛 筆、紙 軸(蛋 架)</p>	<p>學生能正確選 出答案</p> <p>學生能再小組 裡說出自己的 構想</p> <p>學生能完成巨 蛋的著色工作</p>

<p>4. 完成上色後，決定蛋的展示方向，將老師發的”蛋架”固定上去 (蛋架就是膠帶用完剩的紙筒)，蛋架也可以上色</p> <p>What do we do?</p> <p>e. Discuss with your table friends</p> <p>f. Draw the design on the worksheet</p> <p>g. Draw the design on the giant egg</p> <p>h. Put on acrylic colors on the giant egg</p> <p>*No water with acrylic color</p> <p>*Clean up the water color brush right away</p> <p>*Use the light color first</p> <p>After coloring the giant egg, put it on the egg stand(蛋架)</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>Clean up song 3:00</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>帶學生到季節角布置彩蛋，學生決定放置的位置(季節角預計在 A 棟樓梯轉角)</p> <p>E T : So where are we going to put our giant eggs</p> <p>ST: Let's put them in the central hallway.</p> <p>ET: Easter eggs on the central hallway.</p> <p>Goodbye song</p>	10	展覽空間	學生能根據環境決定巨蛋擺放的位置與方向
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## 單元五 鍊鍊鬆餅

週次	內容大剛	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。	
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		
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	Language for learning: <b>活動一</b> I need <u>red/yellow/green/blue</u> wires. Can I borrow the needle-nose plier ? I need the thick/thin wire. I'm done. This is my work. I use <u>pink</u> wires to make this card holder because my mom likes <u>pink</u> . <b>活動二</b>		

I need red/yellow/green/blue color papers.

Mother's Day card :

Thank you for everything, Mom/Dad/Grandpa/Grandma.

To the world's number one Mom/Dad/Grandpa/Grandma.

You are the best Mom/Dad/Grandpa/Grandma.

Take some rest, Mom/Dad/Grandpa/Grandma.

Thank you for taking me to school, Mom/Dad/Grandpa/Grandma.

Take good care of yourself.

I love you.

Here is te gift for you.

Happy Mother's Day.

You are warm and soft.

You smell sweet like roses.

You have pretty hair/eyes.

Your daughter/son, York.

I like two pink, one blue, and two yellow.

活動三

Can I borrow the needle-nose plier ?

I'm done.

Can I make a/an flower/animal ?

I want to make a flower but/and it is a snail/flower.

I want the color, black. Red, purple, blue and golden / two red and three black

What do you want to make? What is this ?

活動四

I'm done.

I will get one piece of paper and cut a square/triangle.

I like this one most.

I will use it to do my toppings.

活動五

I' m done.

I like this gift the most.

These are my gifts for my mom. I want to say Happy Mother' s Day to my mom.

**Language of Learning:**

活動一

What do we need

Needle nose pliers

1.5millimeter aluminum wire

one millimeter aluminum wire

bag

What do we do

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

### 活動二

What do we do

Make these 5 wire circles to be the base

Make the spirals like an umbrella

Shape the spirals and put the cards into the spirals

Finish your tree card

### 活動三

What do we need

Needle nose pliers

1.5millimeter aluminum wire

one millimeter aluminum wire

chain & bracelet catches

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### 活動四

What do we do

Fold the paper into the half like an triangle

Fold the paper again to make a smaller trangle

Make a triangle like another one

Fold the triangle over the top

Cut the paper

### 活動五

What do we need

Pancake flour

Eggs

Oil

Milk or water

electronic scale

measuring cup

chopsticks

frying pan

	spatula <u>What do we do</u> Make the batter Cook the pancake Serve the pancake with favorite toppings		
第週 教學活動-活動一	教學時間	教具	評量
<p>四、 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>五、 引起動機：  <b>The Mother of Mothers Day: Anna Jarvis PPT</b>          ST:原來 Anna Jarvis 就是母親節的創始人!          ET: She makes all the world celebrate Mother's day.          ST:When is Mother's Day ?          Ss:.....          ET: Yes, the second Sunday of May.          ST: Do you celebrate Mother's Day, Karen?          ET: Yes, I write the Mother's Day card and say thank you to my mom.          How about you, Joy?          ST: I will do the same. But my card is very special.          ET:How special ?          ST:I have a holder for the card. Look !          ET:I want to make one , too. Show me how to do it, please ~~</p>	<b>10</b>	<b>PPT</b>	<b>學生能專心聆聽</b>
<p>六、 發展活動：          6. 工具介紹          d. 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)          e. 1.5mm 鋁線(1.5 millimeter aluminum wire)，有各種顏色，可做造型上的搭配          f. 1mm (one millimeter aluminum wire)鋁線，連結配件、捆綁用</p> <p>ET: Joy, what are these? Are they also the gifts for our mothers ?          ST: Yes and no. They are the tools to make the card holder.          ET:Wow, looks interesting.          ST: Do you know how to use them?          ET: this one, needle nose plier?</p>	<b>10</b>	<b>工具閃示卡</b>	<b>學生能認真聽講</b>



<p>ST: yes, needle nose plier</p> <p>ET: we use needle nose plier to cut things</p> <p>ST: cut with this part(手指工具剪的部分)</p> <p>ET: Yes, I see knife here. How about this part, needle nose ?</p> <p>ST: 它可以代替我們的手指頭去捏住細小的東西。</p> <p>ET: Grab the little things with the needle nose part. This is the only tool we need for the card holder today ?</p> <p>ST: Yes !</p> <p>ET: Let's start working. So what do we need to make the card holder ?</p> <p>7. 拿取材料</p> <p>a. 1.5mm 鋁線 20cm，每生 5 條顏色自選</p> <p>b. 1mm 鋁線 20cm，每生 1 條，顏色只有一種不要選</p> <p>8. 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</p> <p>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</p> <p>c. 分別用尖嘴鉗將五條線尾外捲單圈</p> <p>9. 將零件們裝進小袋子裡，寫上姓名下週備用</p>	<p>10</p>	<p>鋁線、尖嘴鉗</p>	<p>學生能剪取指定的鋁線長度與數量</p>
<p><u>What do we need</u></p> <p>Needle nose pliers</p> <p>1.5millimeter aluminum wire</p> <p>one millimeter aluminum wire</p> <p>bag</p> <p><u>What do we do</u></p> <p>6. Make 5 wire spirals</p> <p>7. Tie them up</p> <p>8. Make the other end a circle</p> <p>9. Put them in the bag</p> <p>10. Write down the name</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>Clean up song 3:00</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>40</p>	<p>實物 投影機</p> <p>小袋子</p>	<p>學生能完成鋁線的回紋和單圈</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>			
<p>第週 教學活動-活動二</p>	<p>10</p>		<p>學生能說出選擇色彩的原因</p>
<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： 感謝幫助自己成長的人，說出感謝的話</p> <p>ST: Do you remember what we did last week ?</p> <p>Ss:.....</p> <p>ET: So are we going to make the card for Mom today ?</p> <p>ST:You are so smart. 我們卡片上要寫出我們感謝的話</p> <p>ET: Like the bear says “thank you” ? So you pick the sentences for your mom.</p> <p>例句:</p>	<p>教學時間</p>	<p>教具</p> <p>繪本影片</p>	<p>評量</p> <p>學生能說出母親節想對親人說的話</p>

<p>Mother's Day card :</p> <p>Thank you for everything, <u>Mom/Dad/Grandpa/Grandma.</u></p> <p>To the world's number one <u>Mom/Dad/Grandpa/Grandma.</u></p> <p>You are the best <u>Mom/Dad/Grandpa/Grandma.</u></p> <p>Take some rest, <u>Mom/Dad/Grandpa/Grandma.</u></p> <p>Thank you for taking me to school, <u>Mom/Dad/Grandpa/Grandma.</u></p> <p>Take good care of yourself.</p> <p>I love you.</p> <p>Here is te gift for you.</p> <p>Happy Mother's Day.</p> <p>You are warm and soft.</p> <p>You smell sweet like roses.</p> <p>You have pretty <u>hair/eyes.</u></p> <p>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</p> <p>P2. ET: Look at this tree ! What color are these leaves ?</p> <p>Ss: <u>Yellow/Green/Light green.</u></p> <p>ST: Do you see any animals ?</p> <p>Ss: A <u>bird.</u></p> <p>ET: Can I put something else on the tree but not leaves?</p> <p>ST: Why not ! What do you want to put on the tree?</p> <p>P3. ET: How about hearts ?</p> <p>ST: Do you like the tree with hearts ?</p> <p>Ss:.....</p> <p>P4. ET: How about the tree with balloons ?</p> <p>ST: How do you feel about the tree with balloons ?</p> <p>Ss:.....</p> <p>P5. ET: How about the tree with snowflakes ?</p> <p>ST: How do you feel about the tree with snowflakes ?</p> <p>Ss:.....</p> <p>P6 ET: How about the tree with light ?</p> <p>ST: How do you feel about the tree with light ?</p> <p>Ss:.....</p> <p>P7 ET: How about the tree with bottles ?</p> <p>ST: How do you feel about the tree with bottles ?</p> <p>Ss:.....</p> <p>P8 ET: How about the tree with umbrellas?</p> <p>ST: How do you feel about the tree with umbrellas?</p> <p>Ss:.....</p> <p>ST:So we made the tree trunk and branches last week.</p> <p>ET: We put leaves on the tree today ?</p>	<p><b>10</b></p>	<p>Ppt</p>	<p>學生能說出各種造型的視覺感受</p>
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<p>ST: Leaves can be hearts, balloons, light,bottles, and umbrellas ?  ET:Can I cut flowers, animals, or something else?  ST: Yes ! Five color papers for everyone.  ET: You can think first.</p> <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  ET: Come to the teachers, tell us the colors you like and get the papers.  ST: Let me show you. I like <u>two pink, one blue, and two yellow.</u>  ET: Here you are. (拿錯顏色)  ST: No, I want two pink.  ET: Sorry, here are your two pink.  ST: Thank you !  ET: Don't forget to say thank you. Table leaders come here, you are the teachers !  (確認每組都拿好紙張)  ST: Let's start.</p> <p>3. 發下上週的材料</p> <ol style="list-style-type: none"> <li>a. 徒手將五個單圈調整為穩固的底座</li> <li>b. 徒手將回紋端做出傘形調整</li> <li>c. 將回紋調整縫隙，使卡紙可以放進回紋裡</li> <li>d. 完成感謝小樹</li> </ol> <p>(創作時課巡視)</p> <p>收拾桌面、整理教室。</p> <p>ET: Now it' s time for cleaning.  Clean up song 6:00  Clean up song 3:00  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>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)  Goodbye song</p>	<p>20</p> <p>30</p> <p>10</p>	<p>淺色卡紙</p>	<p>學生能剪出設計的樣式</p> <p>學生能將卡紙固定在支架上 學生能讓小樹平衡立起</p> <p>學生能念出自己的卡片內容</p>
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教學活動-活動三	教學時間	教具	評量
<p>五、 教學準備：學生-鉛筆盒            教師- 1.5mm 鋁線每生 100cm、1mm 鋁線每生 12cm、            尖嘴鉗每生 1 支、鍊條扣頭組每生 1 組、珠寶盒、用具閃示            卡、實物投影機</p> <p>六、 引起動機：            飾品與女人的相關話題            說明今天要做一條手鍊 bracelet 送給媽媽            ST: Look ! This is my jewelry.            ET: Wow, the <u>necklace/earring/ring/bracelet/watch/hair clip/hair tie</u>. I            like your necklace the best. There are many colors.            ST: Oh! It's my favorite ! My daughter made it ! Moms love            everything made by their kids.            ET: Do you know you can make a jewelry for you mom? I have a clip            for you.</p> <p>七、 發展活動：</p> <p>5. 複習工具、介紹今天使用的材料：</p> <ol style="list-style-type: none"> <li>尖嘴鉗：用來夾住鋁線、彎折鋁線、剪斷鋁線</li> <li>1.5mm 鋁線，有各種顏色，可做造型上的搭配</li> <li>1mm 鋁線，連結配件、捆綁用</li> <li>手鍊扣組(扣環及鍊條)</li> </ol> <p>ET: Wow, these bracelets are so beautiful. Can we use it to make the            bracelet(手拿 1mm 鋁線)?            ST: Why not ! Let's see what we have here.            (review flash cards)  <u>What do we need</u>            Needle nose pliers            1.5millimeter aluminum wire            one millimeter aluminum wire            chain &amp; bracelet catches            ET: Can we make a flower ?            ST: I like flowers but we need to practice first.            ET: You are right! Let's practice! What's the first step?            ST: First, let's cut the thick wire to 12 cm.            ET: So we use needle-nose plier to make a flower ?            ST:Yes !            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: .....</p>	10	珠寶 盒	學生能專心聽 講
<p>Needle nose pliers            1.5millimeter aluminum wire            one millimeter aluminum wire            chain &amp; bracelet catches            ET: Can we make a flower ?            ST: I like flowers but we need to practice first.            ET: You are right! Let's practice! What's the first step?            ST: First, let's cut the thick wire to 12 cm.            ET: So we use needle-nose plier to make a flower ?            ST:Yes !            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: .....</p>	5	用具 閃示 卡	學生能說出用 具的功用

<p>ST: So it's your turn.</p> <p>6. 練習折出玫瑰花：Make wire roses</p> <p>a. 教師示範利用尖嘴鉗彎折出玫瑰 use needle-nose plier to make a rose</p> <p>d. 學生剪取 1.5mm 鋁線 1 條(12cm) cut one 1.5 mm wire to length of 12cm</p> <p>b. 學生練習作出一個玫瑰 students try to make a rose</p> <p>ST: Show me your flowers !</p> <p>ET: Wow, good job.</p> <p>ST: Everyone comes to the front.</p> <p>ET: This one is so special !</p> <p>ST: Great ! There are so many ways to bend the wires.</p> <p>ET: Oh, let's go crazy and wild.</p> <p>ST: Each student gets one wire.</p> <p>ET: And cut the thick wire to length of 12cm again.</p> <p>ST: Make your own design !</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)</p> <p>Sharing:</p> <p>I want to make a <u>flower</u> but/and it is a <u>snail/flower</u>.</p>	10	1.5m m 鋁 線、實 物投 影機	學生能利用尖嘴鉗做出一個平面花朵
<p>7. 更多彎折的可能 make more curves or waves</p> <p>a. 教師引導內彎、外彎，或捲曲 bend the wire inward and outward or curves</p> <p>b. 學生剪取 1.5mm 鋁線 1 條(12cm) cut one 1.5 mm wire to length of 12cm</p> <p>c. 學生探索創作，彎摺出一個花樣 make your own design</p> <p>d. 集合討論學生的發現，同儕相互欣賞 peer sharing</p> <p>ET: 3,2,1, freeze ! I have a question!</p> <p>ST: What is your question ?</p> <p>ET: Can I make more curves? (or ST asks ss.)</p> <p>ST: Of course you can ! Tell me your idea.</p> <p>Ss/ET: .....</p> <p>ST: Good job ! Bend the wire inward and outward or curves.</p> <p>ET: Let's try !</p> <p>Ss 操作 行間巡視</p> <p>Sharing:</p> <p>I want to make a <u>flower</u> but/and it is a <u>snail/flower</u>.</p> <p>8. 做出手鍊的配件 decorate the bracelet</p> <p>a. 學生剪取 1.5mm 鋁線 5 條(每條 12cm)，可自由搭配色彩 cut</p>	15	1.5m m 鋁 線	學生能做出內彎以外的鋁線造型  學生能說出作品的特色

<p>5 of 1.5 mm wire of length of 12cm with different colors</p> <p>b. 彎摺出 5 個配件 make 5 accessories</p> <p>ET: So we finish practicing. Are you ready to make the bracelet for your mom ?</p> <p>Ss:.....</p> <p>ST: Let's make five accessories ! (show picture 1 of "Pandora")</p> <p>ET: Five accessories? (ET show picture 2 of Pandora) which one do you like?</p> <p>Ss: .....</p> <p>ET: Shall we start? One student gets five thick wires.</p> <p>ST: Pick the colors for your mom.</p> <p>(Ss : I want the color, <u>black, red, purple, blue and golden / two red and three black</u>)</p> <p>9. 將配飾依序兩兩相接，頭尾接上扣環及鍊條，完成手鍊 connect all the accessories to make the bracelet</p> <p>c. 剪 1mm 鋁線成小段(約 1.5cm 長，學生可自行調整長短) cut six 1mm wire to length of 1.5cm</p> <p>d. 折成小圈，將配件相接 make small loops and connect all the accessories</p> <p>e. 頭尾接上扣環及鍊條 connect the catches and chain</p> <p><u>What do we do</u></p> <p>Make wire roses</p> <p>make more curves or waves</p> <p>decorate the bracelet</p> <p>connect all the accessories to make the bracelet</p>	20	1.5m m 鋁 線	學生能用鋁線摺出 5 個小花樣
<p>(教師行間巡視)</p> <p>ET: What's it about?</p> <p>Ss: .....</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>Clean up song 3:00</p>	10	1mm 鋁線	學生能正確連接 5 個配件及鍊條扣頭
<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>八、 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.</p> <p>Goodbye song</p>	10	實物 投影 機	學生能在試戴手鍊後略做調整

第週 教學活動-活動四	教學時間	教具	評量
<p>五、 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>六、 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>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 !  巧克力蛋糕上放紙格子，撒粉後再拿開！  ET: Are you hungry now ? But no cake today !  ST: This cake is so beautiful. It makes cake look yummier. (show photo)  ET: Look ! What's the difference between these two ?  Ss:.....  ET: Do you want to make one cake too ?  ST: For Mother's Day ? Good idea !  ET: Are we going to do it now ?  ST: No, next week ! I need time to buy the flour, milk, butter, and sugar.  ET: Oh, no cake today ?Let's do some topping first.  ST: What's "topping"?  ET: Here is the picture.  ST: Ahhh.....This is the one we are going to do today !  ET: Let's cut some papers like this and make our cake yummier !(point at the picture )</p> <p>七、 發展活動： origami snowflake  ↓  5. 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</p>	<p>蛋糕製作短片</p> <p>10</p> <p>色紙</p>	<p>10</p>	<p>學生能說出蛋糕上糖霜顯現圖形的原理</p>



的)

ST: First, every student gets one piece of paper and cut a square.

ET: Go ! Cut a square.

課間巡視

ET: Wow, you are so smart. You fold the triangle first and cut.

ST: Look at Jerry. He used a ruler to cut the square. Good job !

Now fold the square and make one cut.

ET: Cut anywhere ?

ST: Yes, but only one cut.

ET: Let's try !

拿兩個作品比較

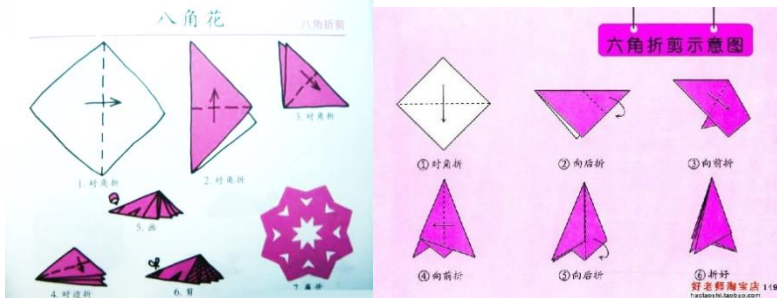
ET: They both cut a triangle. But when we open it, they are different ! Why ?

Ss:.....

ST 總結

6. 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狀 8 sided snowflake

- a. 試著剪多一些面積掉
- b. 剪少一些、圖案小的面積
- c. 大與小同時呈現的狀態



7. 六角折剪(3張) 6 sided snowflake  
6 sided snowflake

What do we do

Fold the paper into the half like an triangle

Fold the paper again to make a smaller triangle

Make a triangle like another one

Fold the triangle over the top

Cut the paper

- a. 根據教師的指導, 成功折出六角折(實物投影機)
- b. 挑選老師提供的花樣, 試著剪剪看兩種雪花

10

學生能回答老師的問題

色紙

20

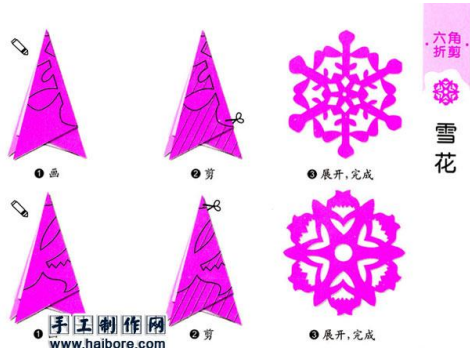
學生能依照指示剪出八角折剪

色紙

30

學生能依照指示剪出六角折剪

學生能剪出至少一個雪花



c. 自創一個花樣

收拾桌面、整理教室。

ET: Now it's time for cleaning.

Clean up song 6:00

Clean up song 3:00

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.

八、 統整活動

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

Sharing :

I like this one most. I will use it to do my toppings.

Goodbye song

10

學生能選擇一個最喜歡的圖樣

第週 教學活動-活動五	教學時間	教具	評量
<p>五、 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>六、 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 <u>h</u> Pancakes,Pancakes ! by Eric Carle Mr. Wolf's Pancakes</p>	10	影片	學生能專心欣賞影片
<p>七、 發展活動：</p> <p>5. 材料介紹 <u>What do we need</u></p> <ol style="list-style-type: none"> <li>鬆餅粉 Pancake flour</li> <li>雞蛋 Eggs</li> <li>沙拉油 Oil</li> <li>牛奶(或開水) Milk or water</li> <li>電子磅秤 electronic scale</li> <li>量杯 measuring cup</li> <li>筷子 chopsticks</li> <li>平底鍋 frying pan</li> <li>鍋鏟 spatula</li> </ol> <p><u>What do we do</u> Make the batter Cook the pancake Serve the pancake with favorite toppings</p>	10	鬆餅食材	
<p>6. 調製小組要用的鬆餅麵糊(一組調一份)</p> <ol style="list-style-type: none"> <li>秤鬆餅粉 100g，雞蛋一顆，牛奶 50ml 拿回小組</li> <li>全部一起攪拌至完全平均 whisk them evenly until the batter thickens</li> <li>靜置 15 分鐘 Let the batter rest for 15 minutes</li> </ol> <p>7. 教師示範煎鬆餅</p> <ol style="list-style-type: none"> <li>放入少許油，熱鍋 Add oil to pan</li> <li>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</li> <li>麵糊表面冒出小氣泡時翻面 Flip the pancakes when the bubbles burst.</li> <li>凝固熟透即可起鍋 When it turns golden brown slide it out of the pan</li> </ol>	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>8. 學生開始煎鬆餅 (教師行間巡視)</p> <p>9. 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>10. 將鬆餅放入容器中, 帶回家與家人分享。</p>	<p>20</p> <p>10</p>	<p>餐盒</p>	<p>學生能按照步驟煎出鬆餅</p>
<p>收拾桌面、整理教室。</p> <p>ET: Now it' s time for cleaning.</p> <p>播放 Clean Up is fun 的歌</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>八、 統整活動</p> <p>Sharing:</p> <p>These are my gifts for my mom. I want to say <u>Happy Mother' s Day</u> to my mom.</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</p> <p>母親節的歌(Mommy)</p> <p>Goodbye song</p>	<p>10</p>		

單元六 流動的大海

週次	內容大綱	備註
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第一週	透過藝術家波拉克，嘗試滴流水彩繪畫。	
第二週	利用鹽巴，嘗試水彩畫的半自動技法。	
第三週	利用酒精，嘗試水彩畫的半自動技法。	
第四週	了解塑膠垃圾對海洋的影響，認識及描繪海龜，並利用塑膠袋進行水彩畫的創作。	
第五週	利用吹泡泡進行水彩創作，並加入上週的海龜，完成減塑愛海洋的宣傳海報。	

#### 主題六

主題名稱	流動的大海	教學設計者	簡佳倚
教學對象	四年級下學期	教學節次	10 節課(每節 40 分鐘)
能力指標	1-2-2、2-2-7、3-2-13		
學習目標	1. 認識、欣賞抽象藝術 2. 學會運用水分與顏料的流動特性 3. 在創作過程中探索內在情感		
核心素養	A3、B3、C1		
學習表現	1-II-2、2-II-2、3-II-1、3-II-4		
教學方法	示範教學法、實做教學法、小組討論法		
英語學習 content vocabulary / sentences patterns	<p><b>單字：</b></p> <p><b>Language for learning：</b></p> <p><b>活動一</b></p> <p>Each person gets one piece of drawing paper.</p> <p>Which one look like Pollock's color paint? Why?</p> <p>I like this one because .....</p> <p>Which one will you use when you creating your work? Why?</p> <p>I will use this one because.....</p> <p><b>活動二</b></p> <p>What's the different effect between sea salt and table salt?</p> <p>How do you know the color paint is half-dried?</p> <p>Will it be differnet if I put more or less salt?</p> <p>Each person gets one piece of 8k watercolor paper.</p>		

Create your own work and you can use any color.

### 活動三

What's the difference after dripping the alcohol?

Does adding less or more alcohol make the result different?

Yes, it becomes...

No, it's the same.

Which way do you like? Less or more alcohol?

### 活動四

Draw a turtle with a pencil on watercolor paper, based on the pictures that provided by the teacher.

Paint the background with watercolor and cover it with plastic bags or plastic wrap.

Let's pick up trash outdoors, do something for the ocean.

### 活動五

Every student comes to the front.

What kind of way you can pop the bubble on watercolor paper?

I can blow the bubbles on watercolor paper.

Which one do you like the most?

I like this one the most.

### **Language of learning:**

#### 活動一

What do you do?

- (1) Devide all the students into 3 groups.
- (2) Drip different amount of color water on the drawing paper.
- (3) Straight up the paper, let the color water flow.
- (4) . Blow the dry paint with straw.
- (5) Watch what will happen.
  - a. Drip only glue and some paints. (Much glue)
  - b. Drip 1 to 1 glue and paints. (Half glue)
  - c. Drip only water and some paints. (No glue)

What do you do?

- (a) Each person gets one piece of drawing paper.
- (b) Making your own color water.
- (c) Drip or blow the color water.
- (d) Create your work.

#### 活動二

What do you need?

- (1) Painting tools
- (2) 4K watercolor paper (each group)
- (3) 8 K watercolor paper (everyone)
- (4) sea salt
- (5) table salt

What do you do?

- (1) each group gets one 4K watercolor paper , some sea salt and table salt.
- (2) Each person mixes one color.
- (3) Paint the color on the watercolor paper.
- (4) Seeing the difference when two colors meet.
- (5) Sprinkle with salt on the half-dried colorpaint.
- (6) Stop 1-2 minutes to watch the changing of the salt.

### 活動三

What do you need?

- (1) Painting tools
- (2) 4K watercolor paper (each group)
- (3) 8 K watercolor paper (everyone)
- (4) A bottle of rubbing alcohol (each group)

What do we do?

- (1) Each group gets one 4K watercolor paper, few rubbing alcohol and 2 droppers.
- (2) Each person mixes a perfect color, and don't make it too thick.
- (3) Color all over paper and see the changing of different colors mix.
- (4) Drop the rubbing alcohol over the painting, stop for 1 minute to see the painting.
- (5) Drop a little more rubbing alcohol on the painting when the watercolor is half- dry.
- (6) Drop the rubbing alcohol again after the watercolor is dry.
- (7) Your masterpiece will be complete.

### 活動四

What do you need?

- (1) Plastic bag
- (2) Painting tools
- (3) 8 K watercolor paper (everyone)

What do you do ?

- (1) Mix different shades of ocean blue in the palette.
- (2) Take out the right size of plastic bags or plastic wrap.
- (3) Paint the background with a large brush in 3 minutes.
- (4) Cover the painting with plastic bags or plastic wrap before the watercolor dries.

	<p>(When you cover it, you can make some patterns.)</p> <p>(5) Leave it to dry with the plastic bags or plastic wrap.</p> <p><b>活動五</b></p> <p>What do you need?</p> <ol style="list-style-type: none"> <li>1. 2 piece of 4K watercolor paper</li> <li>2. Straw</li> <li>3. Dishwashing</li> <li>4. bubble gun</li> <li>5. 10 colors of POP Markers</li> </ol> <p>What do you do?</p> <ol style="list-style-type: none"> <li>1. Blow the bubbles on the dry water color paper at a distance over 10 cm.</li> <li>2. Blow the bubbles on the dry water color paper at a distance of 5 cm.</li> <li>3. Blow the bubbles on the wet water color paper at a distance over 10 cm.</li> <li>4. Blow the bubbles on the wet water color paper at a distance of 5 cm.</li> </ol>			
<p>第週 教學活動-活動一</p>	<p>教學時間</p>	<p>教具</p>	<p>評量</p>	
<p>七、 教學準備：學生-鉛筆盒、吸管1支、水彩用具 教師-Clip、圖畫紙(每生4開1張、16開1張)、膠水(全班50c.c.)、實物投影機、波拉克作品PPT</p> <p>What do you need?</p> <ol style="list-style-type: none"> <li>1. Pencil box</li> <li>2. A straw.</li> <li>3. Painting tools</li> <li>4. A piece of 4K drawing paper</li> <li>5. Glue</li> </ol> <p>八、 引起動機： 介紹藝術家傑克遜·波拉克 (Jackson Pollock, 1912—1956)</p> <p>流動的抽象藝術</p> <ol style="list-style-type: none"> <li>1. 美國藝術家(抽象派表現主義)</li> <li>2. 他的創作並沒有開始的草圖，而只是由一系列即興的行動完成作品。</li> <li>3. 棍子或筆尖把顏色滴到或甩到釘在地上的畫布上，憑著直覺和經驗從畫布四面八方來作畫。</li> <li>4. 《1948年第5號》於2006年拍賣出全球繪畫作品最高價，達1億4千萬美元。</li> </ol> <p>Art with Mati and Dada – Jackson Pollock   Kids Animated Short Stories in English</p>	<p>10</p>	<p>Clip</p>	<p>學生能仔細觀賞影片</p>	



<p>He pours it, drips it and stirs it. He uses brushes, stirs and pours the paint onto the canvas.</p> <p>九、 發展活動：</p> <p>10. 水的濃度與流動實驗：將全班分為三組，進行滴流的測試，在畫紙上滴灑不同濃度的顏料水後，將畫紙立起，使顏料流動。接著，用吸管吹開還沒有乾的顏料，觀察其效果：</p> <p>g. 純粹膠水+顏料的滴流 h. 膠水與顏料 1：1 的滴流 i. 純粹水+顏料的滴流</p> <p>What do you do?</p> <p>(1) Devide all the students into 3 groups. (2) Drip different amount of color water on the drawing paper. (3) Straight up the paper, let the color water flow. (4) . Blow the dry paint with straw. (5) Watch what will happen.</p> <p>a. Drip only glue and some paints. (Much glue) b. Drip 1 to 1 glue and paints. (Half glue) c. Drip only water and some paints. (No glue)</p> <p>If your paint is thick, you may want to water it down a bit so it drips and runs better.</p> <p>11. 討論時間：</p> <p>老師請各組拿一件作品出來，討論不同濃度所呈現的效果（使用實物投影機，盡量讓作品保持平放狀態） 老師提問：哪一種濃度比較像波拉克的顏料？接下來的創作時間，你會用哪一種濃度？</p> <p>Which one look like Pollock’s color paint? Which one will you use when you creating your work?</p> <p>12. 創作時間：</p> <p>d. 每位學生 1 張 4 開圖畫紙，背面先寫好姓名 e. 調製自己想要的濃度 f. 滴灑及吹開顏料，進行創作</p> <p>What do you do?</p> <p>(a) Each person gets one piece of drawing paper. (b) Making your own color water. (c) Drip or blow the color water. (d) Create your work.</p>	<p>15</p> <p>10</p> <p>30</p>	<p>圖畫 紙、膠 水、吸 管、水 彩</p> <p>實物 投影 機</p> <p>4 開圖 畫紙</p>	<p>學生能調配出 教師指定的顏 料濃度 學生能用心嘗 試吹畫</p> <p>學生能說出不同 濃度所呈現的 不同之處</p>
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<p>e. 教師提問，促使小組討論：</p> <p>(1) 粗鹽和細鹽的效果有什麼不一樣？</p> <p>(2) 你如何判斷什麼狀態是水彩”半乾”可以撒鹽巴了？</p> <p>(3) 鹽巴的多寡會影響效果嗎？</p> <p>What do you do?</p> <p>(1) each group gets one 4K watercolor paper , some sea salt and table salt.</p> <p>(2) Each person mixes one color.</p> <p>(3) Paint the color on the watercolor paper.</p> <p>(4) Seeing the difference when two colors meet.</p> <p>(5) Sprinkle with salt on the half-dried colorpaint.</p> <p>(6) Stop 1-2 minutes to watch the changing of the salt.</p> <p>Group discussion</p> <p>(1) What’s the different effect between sea salt and table salt?</p> <p>(2) How do you know the color paint is half-dried?</p> <p>(3) Will it be differnet if I put more or less salt?</p> <p>5. 水彩+鹽巴的創作：</p> <p>e. 每人發下1張8開水彩紙</p> <p>f. 依據剛剛的經驗進行創作，色彩不限</p> <p>(創作時課間尋視)</p> <p>Salt painting</p> <p>a. Each person gets one piece of 8k watercolor paper.</p> <p>b. Create your own work and you can use any color.</p> <p>收拾桌面、整理教室。</p> <p>ET: Now it’ s time for cleaning.</p> <p>播放 Clean Up is fun 的歌</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>學生經驗分享：</p> <p>我發現越(多/少)的(鹽巴/水)，就會讓圖案越(明顯/模糊)</p> <p>我喜歡小明的作品，(圖案/顏色)很(漂亮/特別)</p>	<p>30</p> <p>10</p>	<p>8開水彩紙</p>	<p>學生能掌握水分，成功利用鹽巴做出結晶效果</p> <p>學生能說出對作品的看法</p>
<p>第週 教學活動-活動三</p>	<p>教學時間</p>	<p>教具</p>	<p>評量</p>

<p>一、 教學準備：學生-水彩用具 教師-4 開水彩紙(各組 1 張)、8 開水彩紙(每生 1 張)、酒精每組 1 小瓶</p> <p>What do you need?</p> <p>(1) Painting tools (2) 4K watercolor paper (each group) (3) 8 K watercolor paper (everyone) (4) A bottle of rubbing alcohol (each group)</p>			
<p>二、 引起動機：</p> <p>酒精的特性(學名乙醇，在常溫常壓下是一種易燃、易揮發的無色透明液體，低毒性，純液體不可直接飲用；具有特殊香味，略帶刺激；微甘，伴有刺激的辛辣滋味。易燃，其蒸氣能與空氣形成爆炸性混合物，能與水以任意比互溶。)</p> <p>酒精的作用(可以消毒、作為燃料、做成酒…)</p> <p>17 Surprising Ways You Can Use Rubbing Alcohol</p>	10		學生能開口說說接觸酒精的經驗
<p>三、 發展活動：</p> <p>1. 水彩+酒精的實驗：</p> <p>a. 各組一張 4 開水彩紙、酒精一小瓶、滴管 2 支 b. 調好 1 個顏色的水彩，不要太濃(1 組 4 個人就會有 4 色) c. 在紙張上塗上水彩，觀察不同顏色之間接觸時的變化 d. 在水彩剛塗好時馬上滴上酒精，停留 1 分鐘觀察水彩的變化。等水彩半乾時再滴一些酒精，觀察水彩的變化。等水彩全乾時再滴一些酒精，觀察水彩的變化。</p> <p>watercolor painting and rubbing alcohol</p> <p>What do we do?</p> <p>(1) Each group gets one 4K watercolor paper, few rubbing alcohol and 2 droppers. (2) Each person mixes a perfect color, and don't make it too thick. (3) Color all over paper and see the changing of different colors mix. (4) Drop the rubbing alcohol over the painting, stop for 1 minute to see the painting. (5) Drop a little more rubbing alcohol on the painting when the watercolor is half- dry. (6) Drop the rubbing alcohol again after the watercolor is dry. (7) Your masterpiece will be complete.</p> <p>e. 教師提問，促使小組討論：</p>	20	4 開水彩紙	學生能在 3 個時間點分別滴入酒精，觀察畫紙的變化

<p>(1) 水彩的乾燥程度不同，滴入的酒精效果有什麼不一樣？ What's the difference after dripping the alcohol?</p> <p>(2) 酒精的多寡會影響效果嗎？ Does adding less or more alcohol make the result different?</p> <p>(4) 你喜歡哪一種效果？需要什麼條件才能做出來？ Which way do you like? Less or more alcohol?</p> <p>2. 水彩+酒精的創作：</p> <p>a. 每人發下 1 張 8 開水彩紙</p> <p>b. 依據剛剛的經驗進行創作，色彩不限</p> <p>What do you need?</p> <p>(1) 8K watercolor paper for each person.</p> <p>(2) Create your masterpiece.</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 <a href="https://www.youtube.com/watch?v=gPq7wzGEjqE">https://www.youtube.com/watch?v=gPq7wzGEjqE</a> 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>學生經驗分享：</p> <p>我發現越(密集/大滴/稀疏/小滴)的酒精，就會讓圖案越(明顯/模糊/...)</p> <p>我喜歡小明的作品，(圖案/顏色)很(漂亮/特別)</p>	<p>10</p> <p>30</p> <p>10</p>	<p>8 開水彩紙</p>	<p>學生能多方嘗試，說出自己的心得</p> <p>學生能掌握水分，成功利用酒精做出排水效果</p> <p>學生能說出對作品的看法</p>
<p>第週 教學活動-活動四</p>	<p>教學時間</p>	<p>教具</p>	<p>評量</p>
<p>一、 教學準備：</p> <p>學生-塑膠袋(半斤袋以上的尺寸)、水彩用具</p> <p>教師-8 開水彩紙(每生 1 張)、海龜影片、海龜與陸龜的圖片、繪本</p> <p>What do you need?</p> <p>(4) Plastic bag</p> <p>(5) Painting tools</p> <p>(6) 8 K watercolor paper (everyone)</p> <p>二、 引起動機：</p> <p>海洋教育-海龜面臨塑膠垃圾的殘害</p> <p>三、 發展活動：</p>	<p>10</p>	<p>繪本</p>	<p>學生能仔細聆聽故事</p>

<p>8. 觀察海龜與陸龜的不同：</p> <p>a. 從四肢區分：陸龜前腿圓圓的、粗大的，後腿像象腳，有短趾而且無蹼。海龜的四肢像船的槳，前肢主要用來推動海龜向前，後肢就像方向舵一樣在遊動時掌控方向。</p> <p>b. 陸龜能能把頭、尾和四肢全縮進龜殼裡，海龜沒有辦法將頭部和四肢縮回到殼裡。</p> <p>Turtle Vs.Tortoise</p> <p>9. 在水彩紙上用鉛筆畫出一隻海龜 參考老師提供的圖片，先做海龜的構圖</p>	10	海龜與陸龜的圖片	學生能說出兩種動物的差異之處
<p>Draw a turtle with a pencil on watercolor paper, based on the pictures that provided by the teacher.</p> <p>10. 在背景塗上水彩，覆蓋上塑膠袋或保鮮膜</p> <p>a. 在調色盤內先調好各種深淺不同的海洋藍色</p> <p>b. 準備好大小適中的塑膠袋或保鮮膜</p> <p>c. 塗背景時使用大支的水彩筆，三分鐘內將背景塗完</p> <p>d. 在水彩還沒有乾之前，覆蓋上塑膠袋或保鮮膜，覆蓋時可以故意做一些皺褶，讓紋路明顯</p> <p>e. 先不撕開塑膠袋，貼著畫紙一起放置晾乾架</p> <p>Paint the background with watercolor and cover it with plastic bags or plastic wrap.</p> <p>(1) Mix different shades of ocean blue in the palette.</p> <p>(2) Take out the right size of plastic bags or plastic wrap.</p> <p>(3) Paint the background with a large brush in 3 minutes.</p> <p>(4) Cover the painting with plastic bags or plastic wrap before the watercolor dries. (When you cover it, you can make some patterns.)</p> <p>(5) Leave it to dry with the plastic bags or plastic wrap.</p>	20	8 開水彩紙	學生正確能畫出海龜的特徵
<p>Plastic Wrap Paint Technique</p> <p>收拾桌面、整理教室。</p> <p>ET: Now it' s time for cleaning.</p> <p>播放 Clean Up is fun 的歌</p> <p><a href="https://www.youtube.com/watch?v=gPq7wzGEjqE">https://www.youtube.com/watch?v=gPq7wzGEjqE</a></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>到戶外去撿垃圾，為海洋盡一份心力</p> <p>Pick up trash outdoors, do something for the ocean.</p>	30	塑膠袋、水彩用具	學生能掌握水分，成功利用塑膠袋做出皺摺效果
	10		學生至少撿 3

			個垃圾
第週 教學活動-活動五	教學時間	教具	評量
<p>一、 教學準備：學生- 資源回收的小容器 1 個、吸管 1 支、水彩用具</p> <p>教師- 4 開水彩紙(各組 2 張)、電動的吹泡泡機 1 台、沙拉脫、各色平頭筆 10 支、張貼海報的牆面</p> <p>What do you need?</p> <ol style="list-style-type: none"> <li>1. 2 piece of 4K watercolor paper</li> <li>2. Straw</li> <li>3. Dishwashing</li> <li>4. bubble gun</li> <li>5. 10 colors of POP Markers</li> </ol> <p>二、 引起動機：</p> <p>吹泡泡的遊戲(老師用電動的吹泡泡機，給學生玩一下)</p> <p>Every student comes to the front, teacher play some party music and have them dance. Teacher blows bubbles into the dance space, and ask kids to pop as many bubbles as they can.</p> <p>When the music stops, kids must stop dancing, stop popping bubbles, and freeze. Anyone who fails to freeze is out of the game before the next round begins.</p> <p>三、 發展活動：</p> <p>11. 泡泡吹畫實驗：用吸管在水彩紙上進行吹泡泡測試，觀察其效果(4 開水彩紙各組 2 張)：</p> <ol style="list-style-type: none"> <li>j. 在乾燥的水彩紙上，距離 10 公分以上吹泡泡</li> <li>k. 在乾燥的水彩紙上，距離 5 公分以內吹泡泡</li> <li>l. 先打濕水彩紙，距離 10 公分以上吹泡泡</li> <li>m. 先打濕水彩紙，距離 5 公分以內吹泡泡</li> </ol> <ol style="list-style-type: none"> <li>1. Blow the bubbles on the dry water color paper at a distance over 10 cm.</li> <li>2. Blow the bubbles on the dry water color paper at a distance of 5 cm.</li> <li>3. Blow the bubbles on the wet water color paper at a distance over 10 cm.</li> <li>4. Blow the bubbles on the wet water color paper at a distance of 5 cm.</li> </ol> <p>12. 討論時間：</p> <p>老師提問：哪一種方式可以留下泡泡的痕跡？你喜歡哪一種效果？</p>	<p>10</p> <p>20</p> <p>10</p>	<p>吹泡泡機</p> <p>4 開水彩紙</p>	<p>學生觀察泡泡的特性與動向</p> <p>學生能多方嘗試，說出自己的心得</p>



<p>What kind of way you can pop the bubble on watercolor paper? Which one do you like the most?</p> <p>13. 創作時間：</p> <ol style="list-style-type: none"> <li>發下上週海龜的作品，撕開塑膠袋驗收成果</li> <li>為海龜上色</li> <li>剪下泡泡，在泡泡裡面寫下減塑愛海洋的句子</li> <li>將泡泡句貼在海龜作品上</li> <li>老師提供平頭筆，學生在海報上寫下標題</li> </ol> <ol style="list-style-type: none"> <li>1. Give the work of the sea turtle to students and tear open the plastic bag.</li> <li>2. Color the sea turtle.</li> <li>3. Cut out the bubbles and write something about reducing the plastic in the bubbles.</li> <li>4. Paste the bubble sentence on the sea turtle.</li> <li>5. students write down a title on the poster with POP marker.</li> </ol> <p>收拾桌面、整理教室。 ET: Now it' s time for cleaning. 播放 Clean Up is fun 的歌 <a href="https://www.youtube.com/watch?v=gPq7wzGEjqE">https://www.youtube.com/watch?v=gPq7wzGEjqE</a> 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>	30	上週 的作 品	學生能利用多種創作方試，完成海報
<p>四、 統整活動</p> <p>張貼海報，一起對學校同學們宣傳</p> <p>Post the poster around the school, promote the idea to the students at school.</p>	10		學生能思考適合張貼的地點



## 英語教室用語與學科專業英語

Unit 單元	Classroom English 教室英文	Content English 學科專業英語
單元四	活動一 Easter egg, I like <u>pumping the balloons</u> the most. <u>Pumping the balloon</u> is the most difficult part.	活動一 <b>What do we do:</b> <ol style="list-style-type: none"> <li>1. Pump the balloons to the size of eggs.</li> <li>2. Cut the milk box and make it a glue box of 5cm high</li> <li>3. Mix the glue and water. One drop of glue go with 40cc water and stir evenly.</li> <li>4. Cover the balloon with 3 kinds of paper in order.</li> <li>5. put one the name sticker on the egg</li> </ol> <b>What do we need:</b> balloon pump, balloon, kitchen paper, glue,newspaper, copy paper, name sticker, scissors, milk box

## 活動二

Find the eggs

Paint the eggs

Hide the eggs

Which design do you like the best?

Circle the one you like

What are you drawing on the egg?

I'm drawing \_\_\_\_\_ on the egg.

Clean up the brush right away.

Put the light color first, from light to dark

## 活動二

What do we do:

### Worksheet

1. design how to dye(color) the egg
2. finish the worksheet
3. teachers and students vote for their favorite design

### Paint the egg with acrylic color

1. Cover the hole with paper tape
2. Draw the design on your Easter egg.
3. Paint it with acrylic color
4. color it with no water
5. Clean up the brush right away.
6. Put the light color first, from light to dark
7. Those who finish painting can get the glitter glue.

### Wrap up

1. Is it different between the designing and painting?
2. Tell us why there is a heart on the worksheet but not on your Easter egg?

### 活動三

miniature show, giant eggs,

Where are they?

They're at \_\_\_\_\_. (staple, bike, swimming pool, yolk, hamburger)

Where is the giant rabbit

It is on the square.)

monkey/bear/frog/slug/duck/hippo/bunny/fish/dog/elephant)

How do you feel when you see the giant thing ?

I feel good. (happy, nice, sad, cool...)

### 活動三

#### What do we need:

the things on the recycling box, clean trash, scissors

wide tape, narrow tape with a tape dispenser, PPT, glue, pot, and paper

#### What do we do:

1. Find the big things in the box
2. Pack the big recyclings a shape of a giant egg.
3. Put the small recyclings on the egg
4. Pack it like an egg.

ET: how do you shape it like an egg?

Ss: We pack the big things first and shape it look like an egg with small things.

### 活動四

Where are we going to put our giant eggs

Let's put them in the central hallway. (classroom, park, office.....)

Easter eggs on the central hallway.

Easter egg hunting, Easter Bunny

### 活動四

#### What do you need

Pencils, Nylon line

Acrylic colors 5ml\*10, egg holder \*6

Space for showing

#### What do we do?

1. Discuss with your table friends
2. Draw the design on the worksheet
3. Draw the design on the giant egg
4. Put on acrylic colors on the giant egg

\*No water with acrylic color

\*Clean up the water color brush right away

\*Use the light color first

Unit 單元	Classroom English 教室英文	Content English 學科專業英語
單元五	<p>活動一</p> <p>I need <u>red/yellow/green/blue</u> wires. Can I borrow the needle-nose plier ? I need the thick/thin wire. I'm done. This is my work. I use <u>pink</u> wires to make this card holder because my mom likes <u>pink</u>.</p> <p>活動二</p> <p>I need <u>red/yellow/green/blue</u> color papers.</p> <p><u>Mother's Day card :</u> Thank you for everything, <u>Mom/Dad/Grandpa/Grandma.</u> 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. Here is te 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>I like <u>two pink, one blue, and two yellow</u>.</p>	<p>活動一</p> <p><u>What do we need</u> Needle nose pliers 1.5millimeter aluminum wire one millimeter aluminum wire bag <u>What do we do</u> Make 5 wire spirals Tie them up Make the other end a circle Put them in the bag Write down the name</p> <p>活動二</p> <p><u>What do we do</u> Make these 5 wire circles to be the base Make the spirals like an umbrella Shape the spirals and put the cards into the spirals Finish your tree card</p>

<p><b>活動三</b></p> <p>Can I borrow the needle-nose plier ?</p> <p>I'm done.</p> <p>Can I make a/an flower/animal ?</p> <p>I want to make a <u>flower</u> but/and it is a <u>snail/flower</u>.</p> <p>I want the color, <u>black. Red, purple, blue and golden / two red and three black</u></p> <p>What do you want to make? What is this ?</p>	<p><b>活動三</b></p> <p><u>What do we need</u></p> <p>Needle nose pliers</p> <p>1.5millimeter aluminum wire</p> <p>one millimeter aluminum wire</p> <p>chain &amp; bracelet catches</p>
<p><b>活動四</b></p> <p>I'm done.</p> <p>I will get one piece of paper and cut a square/triangle.</p> <p>I like this one most.</p> <p>I will use it to do my toppings.</p>	<p><b>活動四</b></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>
<p><b>活動五</b></p> <p>I' m done.</p> <p>I like this gift the most.</p> <p>These are my gifts for my mom. I want to say <u>Happy Mother' s Day</u> to my mom.</p>	<p><b>活動五</b></p> <p><u>What do we need</u></p> <p>Pancake flour</p> <p>Eggs</p> <p>Oil</p> <p>Milk or water</p> <p>electronic scale</p> <p>measuring cup</p> <p>chopsticks</p> <p>frying pan</p> <p>spatula</p> <p><u>What do we do</u></p> <p>Make the batter</p> <p>Cook the pancake</p> <p>Serve the pancake with favorite toppings</p>

Unit 單元	Classroom English 教室英文	Content English 學科專業英語
單元六	<p>活動一</p> <p>Each person gets one piece of drawing paper. Which one look like Pollock's color paint? Why? I like this one because ..... Which one will you use when you creating your work? Why? I will use this one because.....</p>	<p>活動一</p> <p><b>What do you do?</b></p> <ol style="list-style-type: none"> <li>(1) Devide all the students into 3 groups.</li> <li>(2) Drip different amount of color water on the drawing paper.</li> <li>(3) Straight up the paper, let the color water flow.</li> <li>(4) . Blow the dry paint with straw.</li> <li>(5) Watch what will happen. <ol style="list-style-type: none"> <li>a. Drip only glue and some paints. (Much glue)</li> <li>b. Drip 1 to 1 glue and paints. (Half glue)</li> <li>c. Drip only water and some paints. (No glue)</li> </ol> </li> </ol> <p>What do you do?</p> <ol style="list-style-type: none"> <li>(a) Each person gets one piece of drawing paper.</li> <li>(b) Making your own color water.</li> <li>(c) Drip or blow the color water.</li> <li>(d) Create your work.</li> </ol>
	<p>活動二</p> <p>What's the different effect between sea salt and table salt? How do you know the color paint is half-dried? Will it be differnet if I put more or less salt? Each person gets one piece of 8k watercolor paper. Create your own work and you can use any color.</p>	<p>活動二</p> <p><b>What do you do?</b></p> <ol style="list-style-type: none"> <li>(1) each group gets one 4K watercolor paper , some sea salt and table salt.</li> <li>(2) Each person mixes one color.</li> <li>(3) Paint the color on the watercolor paper.</li> <li>(4) Seeing the difference when two colors meet.</li> <li>(5) Sprinkle with salt on the half-dried colorpaint.</li> <li>(6) Stop 1-2 minutes to watch the changing of the salt.</li> </ol>
	<p>活動三</p> <p>What's the difference after dripping the alcohol? Does adding less or more alcohol make the result different? Yes, it becomes...</p>	<p>活動三</p> <p><b>What do you need?</b></p> <ol style="list-style-type: none"> <li>(1) Painting tools</li> <li>(2) 4K watercolor paper (each group)</li> <li>(3) 8 K watercolor paper (everyone)</li> <li>(4) A bottle of rubbing alcohol (each group)</li> </ol>

<p>No, it's the same.</p> <p>Which way do you like? Less or more alcohol?</p>	<p>What do we do?</p> <ol style="list-style-type: none"> <li>(1) Each group gets one 4K watercolor paper, few rubbing alcohol and 2 droppers.</li> <li>(2) Each person mixes a perfect color, and don't make it too thick.</li> <li>(3) Color all over paper and see the changing of different colors mix.</li> <li>(4) Drop the rubbing alcohol over the painting, stop for 1 minute to see the painting.</li> <li>(5) Drop a little more rubbing alcohol on the painting when the watercolor is half- dry.</li> <li>(6) Drop the rubbing alcohol again after the watercolor is dry.</li> <li>(7) Your masterpiece will be complete.</li> </ol>
<p>活動四</p> <p>Draw a turtle with a pencil on watercolor paper, based on the pictures that provided by the teacher.</p> <p>Paint the background with watercolor and cover it with plastic bags or plastic wrap.</p> <p>Let's pick up trash outdoors, do something for the ocean.</p>	<p>活動四</p> <p><b>What do you do ?</b></p> <ol style="list-style-type: none"> <li>(1) Mix different shades of ocean blue in the palette.</li> <li>(2) Take out the right size of plastic bags or plastic wrap.</li> <li>(3) Paint the background with a large brush in 3 minutes.</li> <li>(4) Cover the painting with plastic bags or plastic wrap before the watercolor dries. (When you cover it, you can make some patterns.)</li> <li>(5) Leave it to dry with the plastic bags or plastic wrap.</li> </ol>
<p>活動五</p> <p>Every student comes to the front.</p> <p>What kind of way you can pop the bubble on watercolor paper?</p> <p>I can <u>blow</u> the bubbles on watercolor paper.</p> <p>Which one do you like the most?</p> <p>I like this one the most.</p>	<p>活動五</p> <p><b>What do you need?</b></p> <ol style="list-style-type: none"> <li>1. 2 piece of 4K watercolor paper</li> <li>2. Straw</li> <li>3. Dishwashing</li> <li>4. bubble gun</li> <li>5. 10 colors of POP Markers</li> </ol> <p><b>What do you do?</b></p> <ol style="list-style-type: none"> <li>1. Blow the bubbles on the dry water color paper at a distance over 10 cm.</li> <li>2. Blow the bubbles on the dry water color paper at</li> </ol>

		<p>a distance of 5 cm.</p>
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3. Blow the bubbles on the wet water color paper at a distance over 10 cm.

4. Blow the bubbles on the wet water color paper at a distance of 5 cm.