

Teaching Unit

教學單元

Coastal Flavour (Secondary 4)

This unit combined Biology learning to guide students to observe Hong Kong's coastal marine life, thereby cultivating conservation awareness. By focusing on the shape and texture characteristics of the organisms, students explored the relationship between "form and function" in product design and learned how to apply the organisational principle of "movement" to conceive their works. From drawing 3D diagrams, to using ceramic skills, and to transforming 2D ideas into 3D physical objects, students were expected to create condiment bottle sets that possess aesthetics and functionality, while being able to promote ecological messages.

海岸風味（中四）

本單元結合生物科引導學生觀察香港海岸生物，藉此培養保育意識。學生聚焦觀察抽取生物的造形與質感特徵，探究產品設計中「形式與功能」的關係，並運用組織原理「動勢」構思作品。從繪製多角度立體示意圖，到運用陶藝技巧將平面意念轉化為立體實物，期望學生創作出兼具美感、實用性與可推廣環保生態信息的調味瓶套裝。

CHAN Ka-yuet

陳加玥

Condiment Bottle Design

調味料瓶設計

The Mastigias papua (also known as the Spotted Jellyfish) could be seen in Hong Kong waters. The dots on its body inspired a playful creation. This salt bottle design was small and exquisite, highlighting the short, tiny tentacles. Changed from white dots to childish colours, matching the shaking motion when sprinkling salt, fingers holding the jellyfish brought out a lively, bouncing feeling.

香港水域可見巴布亞硯水母（又稱珍珠水母），身上圓點啟發成具玩味的創作，這鹽瓶設計小巧精緻，突顯了短小的觸手，由白點轉成具童趣的色彩，配合灑鹽時的搖晃動作，手指可抱著水母，帶出活潑跳動之感。

Design Features 設計特色

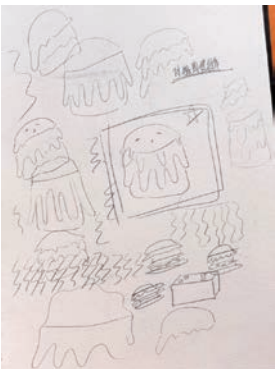
- The jellyfish tentacles are short and small, distributed irregularly, bringing out a sense of rhythm;
水母觸手形狀短小，不規則分佈，帶出節奏感；
- The polka dots are of various sizes, in soft and sweet colours, shaking vividly;
波點大小不一，色彩柔和甜美，活潑搖動；
- Matching the shaking motion during use, holding the jellyfish firmly is both stable and interactive.
配合晃動使用，手握水母，既穩固又具互動性。



Sketch Development: Stage One

草圖發展：第一階段

Used repeat curve rotation and vibration to bring out the jellyfish's characteristics.
以重複的曲線轉動、震動帶出水母特性。



3D Test One: Prototype Making

立體試驗一：原型製作

Due to material limitations, the salt sprinkling effect could not be tested.
材料局限，未能試驗灑鹽效果。

Prototype Making: Ceramics
原型製作：陶器



Sketch Development: Stage Two

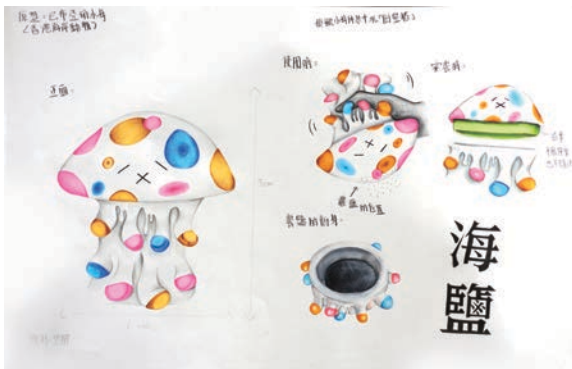
草圖發展：第二階段

Changed to tentacles of varying lengths to enhance the sense of rhythm; the white polka dots were adjusted to sweet and simple colours, increasing playfulness and childlike charm.
改為長短不一的觸手，提升節奏感；白色波點調整成甜美而簡單的色彩，增加童趣及玩味。

3D Test Two: Prototype Making

立體試驗二：原型製作

In 3D printing test with coffee grounds as raw materials, the 3D printed in shape and form had a relatively long body, making it difficult to show cuteness, and it required colouring to bring out its vitality.
使用咖啡渣作3D打印試驗材料，該3D打印品形狀較長身難見可愛感，另須上色帶出活力。



Digital Drawing (External)
電腦繪圖（外部）



Digital Drawing (Internal)
電腦繪圖（內部）



3D Test Three: Making Process

立體試驗三：製作過程

Changed the appearance, enhanced cuteness and interactivity.
改變了外貌，提升可愛感及互動性。



3D Test Three: Final Work and Usage Method

立體試驗三：完成作品

Changed the appearance, enhanced cuteness and interactivity.
改變了外貌，提升可愛感及互動性。

Prototype Making: Air-dry clay
Expected Production Material: Plastic
原型製作：免燒土
期望生產材質使用：塑膠



AI generated rendering
人工智能生成效果圖

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LIN Gwan-sung
林鈞淞

Condiment Bottle Design
調味料瓶設計

The Hong Kong Moon Jellyfish exists in Hong Kong waters, with colours ranging from white to light blue. Following its translucent softness and colour to develop a coastal dual-purpose salt bottle, which could be poured out or taken out with a small spoon. A small electric light could be placed at the bottom of the work, and the light could penetrate it, presenting a rising gradient light effect. The light accompanied by the jellyfish tentacles scattered like smoke, highlighting the sense of movement and adding a touch of tranquility.



香港海月水母在香港水域存在，由白色到淡藍色都有，從其半透明柔和色彩啟發成海邊兩用鹽瓶，能倒出或用小勺子取出。作品底部能放小電燈，燈光可透射其中，並以上升漸變的光效呈現，光線伴隨水母足葉如煙般散去，突顯律動感，增添悠閑意境。

Design Expressing Movement 動感表現設計

The jellyfish tentacles bend with a larger curve from the bottom, extending upwards, gradually shrinking at the top;
水母足葉由底部以較大幅度彎曲，向上延展，至頂部逐漸縮小；

Combined with the hollow structure, light can penetrate it, and it is presented with an upward gradient light effect, and the light scatters like smoke along with the tentacles; creating a dynamic and elegant rhythm resembling the moon jellyfish.

配合鏤空結構，燈光可透射其中，並以上升漸變的光效呈現，光線伴隨足葉如煙般散去；營造出海月水母般柔和而優雅的律動感。

Sketch Development: Stage One
草圖發展：第一階段

Centred on the upward-rolling movement, using upward, irregular flowing curves as the focus of idea, making the overall mood calm and leisurely at the seaside.
圍繞著上捲的動態，以向上、不規則的流暢曲線為意念發展焦點，整體氣氛亦漸定於海邊悠閑。



The general concept is a jellyfish head on top, but the Biology teacher pointed out that adult jellyfish swam upside down, thus using this for inspiration.

一般概念是水母頭在上，但生物科老師指出成年水母是反轉向上游動，故以此作啟發。

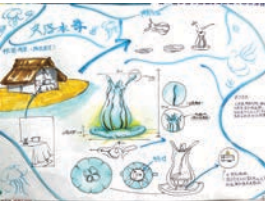
Feature of Upside-down Jellyfish.
倒立（仙后）水母特色。



Online Image: PIXNET
網上圖片來源：PIXNET

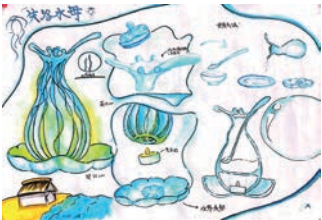
Sketch Development: Stage Two
草圖發展：第二階段

Study movement and multi-angle presentation.
研究動感及多角度呈現。



Sketch Development: Stage Three
草圖發展：第三階段

Produced a 3D test, then made adjustments, strengthened the hollow position and decoration, strengthened the sense of movement.
製作立體試驗一後再作微調，加強鏤空位置及裝飾，加強動感。



3D Test One: Prototype Making
立體試驗一：原型製作

Due to material limitations, the salt sprinkling effect could not be tested.
材料局限，未能試驗灑鹽效果。



Final Draft: Computer Drawing
定稿：電腦繪圖



3D Test Two: Recreating
立體試驗二：再製作



Test Two: Final work
立體試驗二：完成作品



AI generated rendering
人工智能生成效果圖