



探索數學的多元宇宙

加入奇幻遊戲式背景設定
用桌遊解謎引發學習動機

本課程為108課綱國一第二學期數學為編輯架構，使用myViewBoard科技輔助工具為載體，課程互動功能著重在啟迪學習者對於國中數學的學習興趣與動機。本教材能有效訓練學生觀察、演算、抽象、推論、溝通和數學表述等各項能力。在實際操作數學工具及驗證推理中，培養思考、分析問題和解決問題的能力。



遊戲機制融入學習

- 融入桌遊／解謎遊戲化評量，強化學生的學習動機



行動載具即時互動

- 透過行動載具(如iPad)搭配學習單和老師互動，提高學生專注力



課前活動活化學習

- 課前引起動機小活動，透過myViewBoard互動操作，讓學生輕鬆趣味學習



多元豐富評量方式

- 透過拍照上傳、隨堂測驗等多元方式，有效診斷學生學習成果

國中數學- 探索數學的多元宇宙



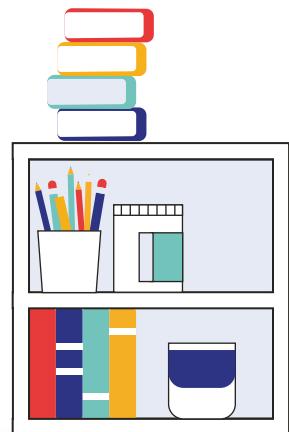


課程架構

- 線對稱與三視圖
- 二元一次聯立方程式
- 直角座標與二元一次方程式的圖形
- 比例
- 一元一次不等式

A screenshot of an interactive game. At the top, there are seven yellow polygons: triangle, right-angled triangle, square, pentagon, right-angled pentagon, hexagon, and right-angled hexagon. Below them are two rows of four rounded rectangular doors each. The first row contains: 三邊形 (Triangle), 四邊形 (Quadrilateral), 六邊形 (Hexagon), and 八邊形 (Octagon). The second row contains: 正三邊形 (Equilateral Triangle), 正四邊形 (Equilateral Quadrilateral), 正五邊形 (Equilateral Pentagon), and 正六邊形 (Equilateral Hexagon). A speech bubble from a character says: 「現在有八扇門，要 拖移正確的圖形才能夠開啟密道！」 (Now there are eight doors, you need to drag the correct shape to open the secret passage!).

互動式元素促進學習思考



「動態遊戲式學習，
幫助學生愛上國中數學。」

A screenshot of an interactive game titled "嫌犯的畫像" (Portrait of the Suspect). It shows a wanted poster template with a placeholder for a face and the text "DEAD OR ALIVE". Below the template are six smaller versions of the same template, each with a different reward amount: 50,000, 10,000, 8,000, 6,000, 5,000, and 3,000. The text on the screen says: 「你只有看到嫌犯的左臉，左臉包含了角,線,射線，請畫出嫌犯的左臉，並拍照使用 上傳給老師」 (You only see the left face of the suspect, which contains angles, lines, and rays. Please draw the left face of the suspect and take a photo to upload to the teacher using).

動畫素材有效建立記憶點

A screenshot of an interactive game titled "三視圖" (Three-dimensional view). It shows a 3D cube composed of smaller colored cubes (yellow, blue, purple). To its left is a 3x3 grid of letters: aye, sou, bfx, bse, cen, and son. To its right is another 3x3 grid: song, dot, and ong. The text on the screen says: 「嫌犯跑進一棟大樓並且消失了，這棟大樓的三視圖似乎隱藏了訊息，請找出隱藏訊息」 (The suspect ran into a building and disappeared. The three-dimensional view of the building seems to hide information. Please find the hidden message). Below the main image is a note: 「請使用下列三個圖形來破案：」 (Please use the following three shapes to solve the case:) followed by three small colored squares.

A screenshot of an interactive game titled "三視圖" (Three-dimensional view). It shows a 3D cube composed of smaller colored cubes (yellow, blue, purple). To its left is a 3x3 grid of letters: aye, sou, bfx, bse, cen, and son. To its right is another 3x3 grid: song, dot, and ong. The text on the screen says: 「請使用下列三個圖形來破案：」 (Please use the following three shapes to solve the case:) followed by three small colored squares. The text at the bottom says: 「遊戲式教學內容融入體驗」 (Game-based teaching content integrated into experience).

