

蒸汽工坊PBL專案式 Scratch教學平臺



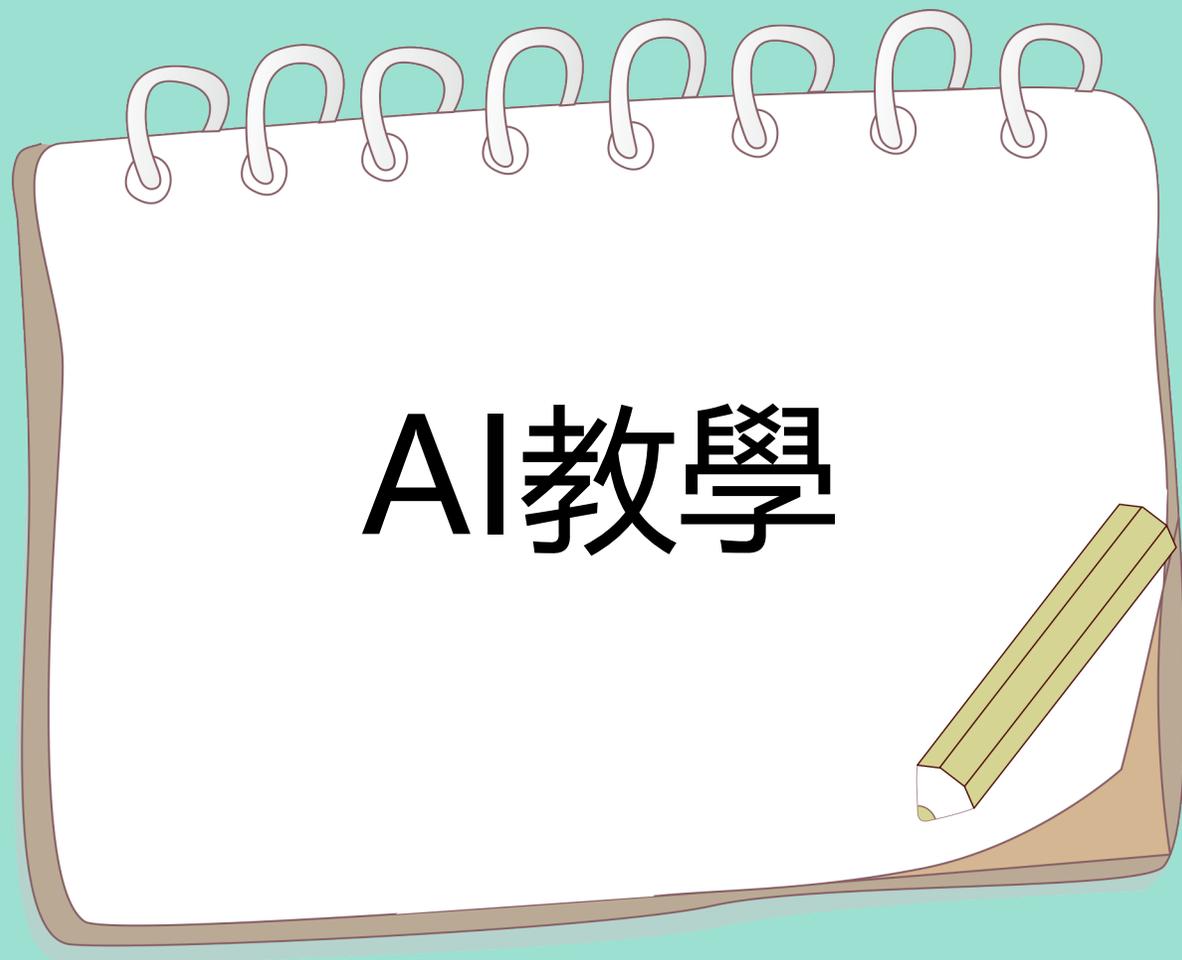
目錄



AI教學

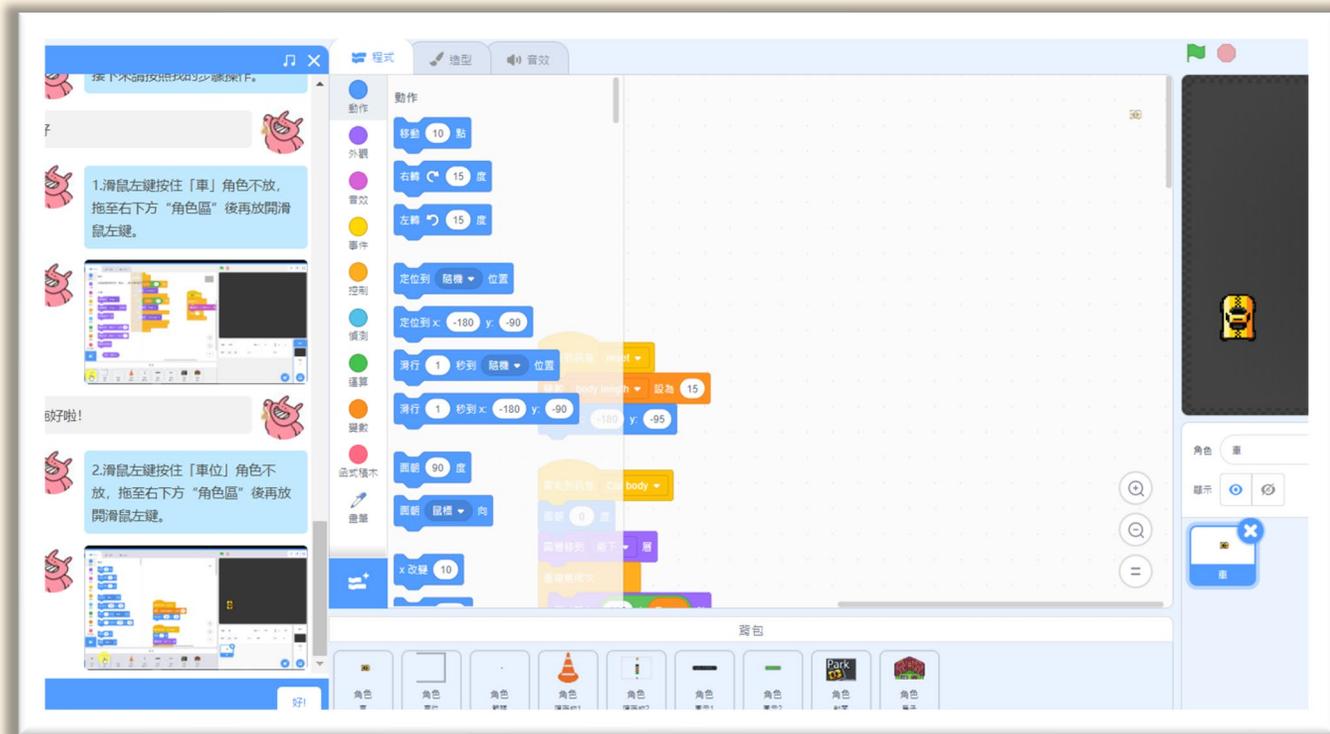
班級管理

課程系統



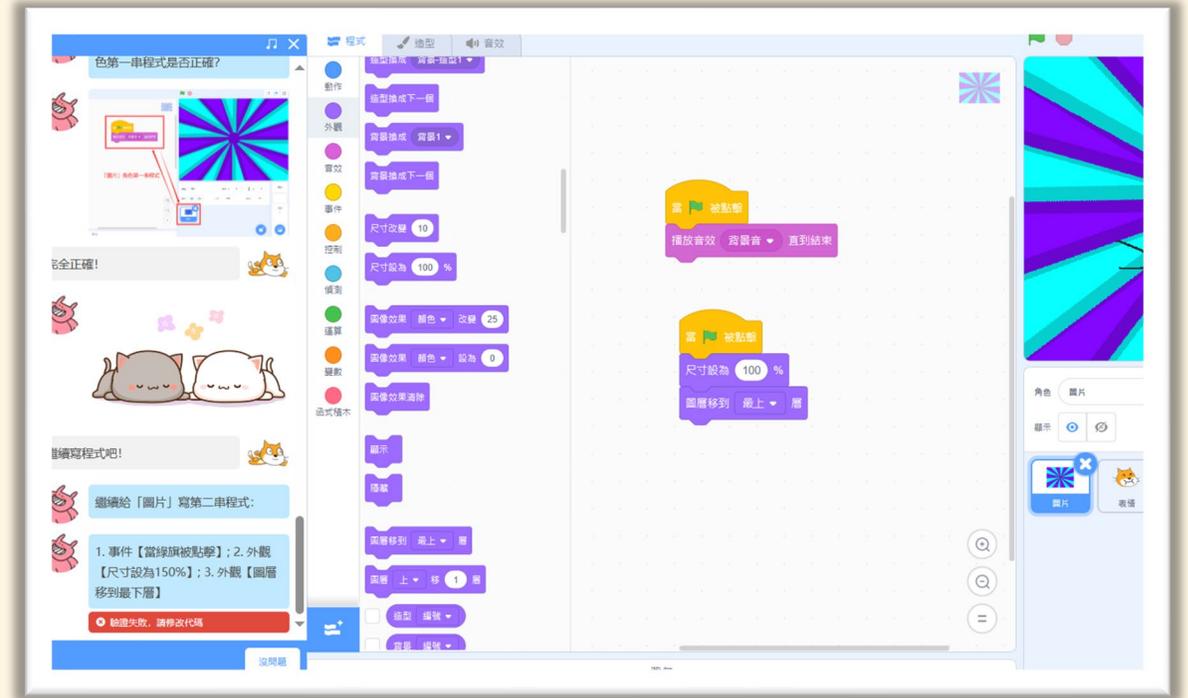
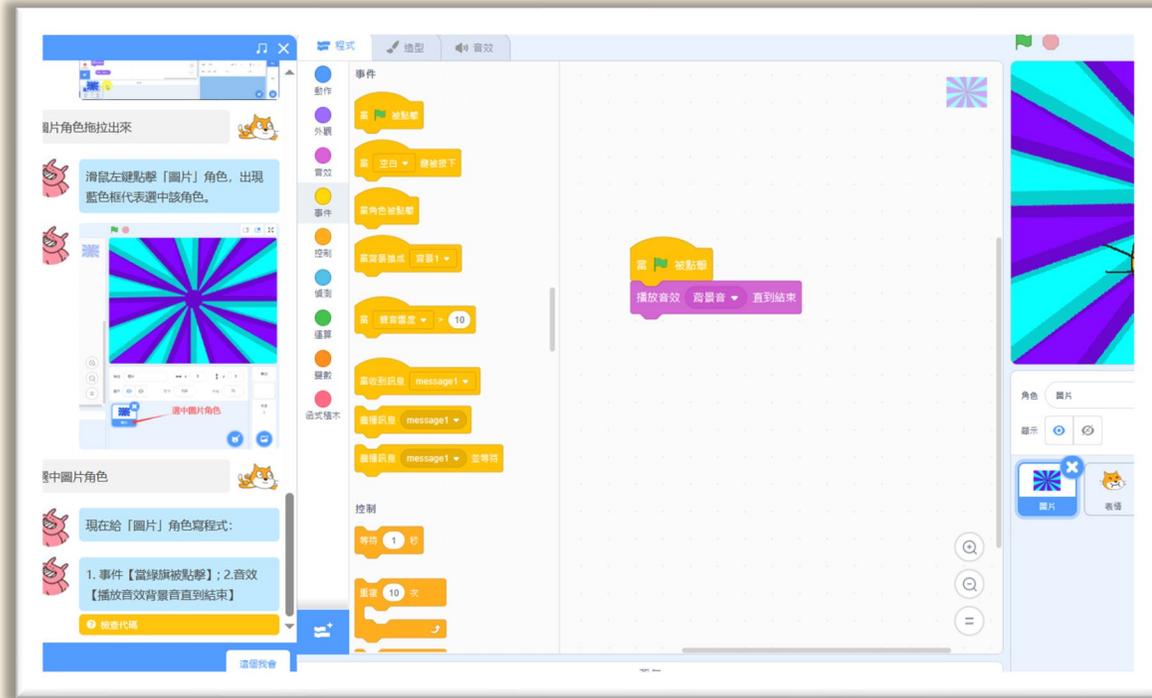
AI教學

AI 虛擬老師



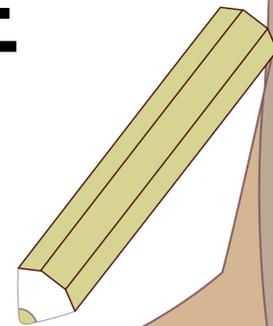
AI 虛擬老師用圖文並茂的對話方式，實時指導每一個操作步驟，學生可以依據自己的理解控制進度，達到非同步教學方式。

AI虛擬老師



AI虛擬老師可以自動檢測學生編寫的程式是否正確，教師可以專注在學生個性化指導或是共通性問題概念講解。

班級管理



教師



職能：多班級管理

描述：可帶領多個班級，有權利添加代理教師，班級教師均可以審核、刪除作業。

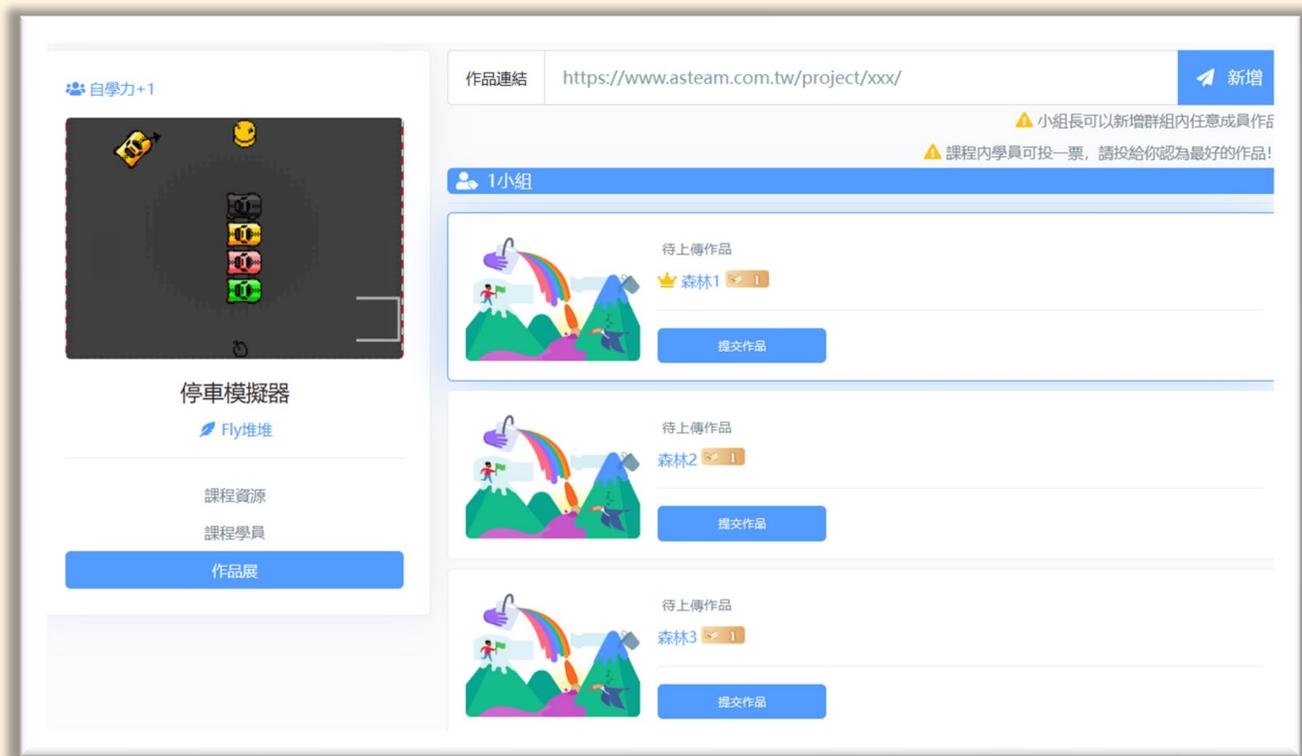
代理教師



職能：帶領班級

描述：負責管理班級紀律，作業審核及刪除。引導班級趣味學習的氛圍。

學生組長



The screenshot shows a user interface for a student group. On the left is a sidebar with navigation options: '自學力+1', '停車模擬器', 'Fly堆堆', '課程資源', '課程學員', and '作品展'. The main content area features a '作品連結' (Project Link) field with the URL 'https://www.asteem.com.tw/project/xxx/' and a '新增' (Add) button. Below this, there are three '待上傳作品' (Pending Uploads) sections, each with a '提交作品' (Submit Work) button. The first section is titled '森林1' (Forest 1), the second '森林2' (Forest 2), and the third '森林3' (Forest 3). A warning message at the top right states: '小組長可以新增群組內任意成員作品' (Group leaders can add any member's work in the group) and '課程內學員可投一票，請投給你認為最好的作品!' (Students in the course can vote once, please vote for the work you think is the best!).

職能：帶領同組學生

描述：小組以學習進度劃分，每小組會指定一名組長，帶領同學完成作業，擁有審核、刪除作業的權利。

學生帳號生成

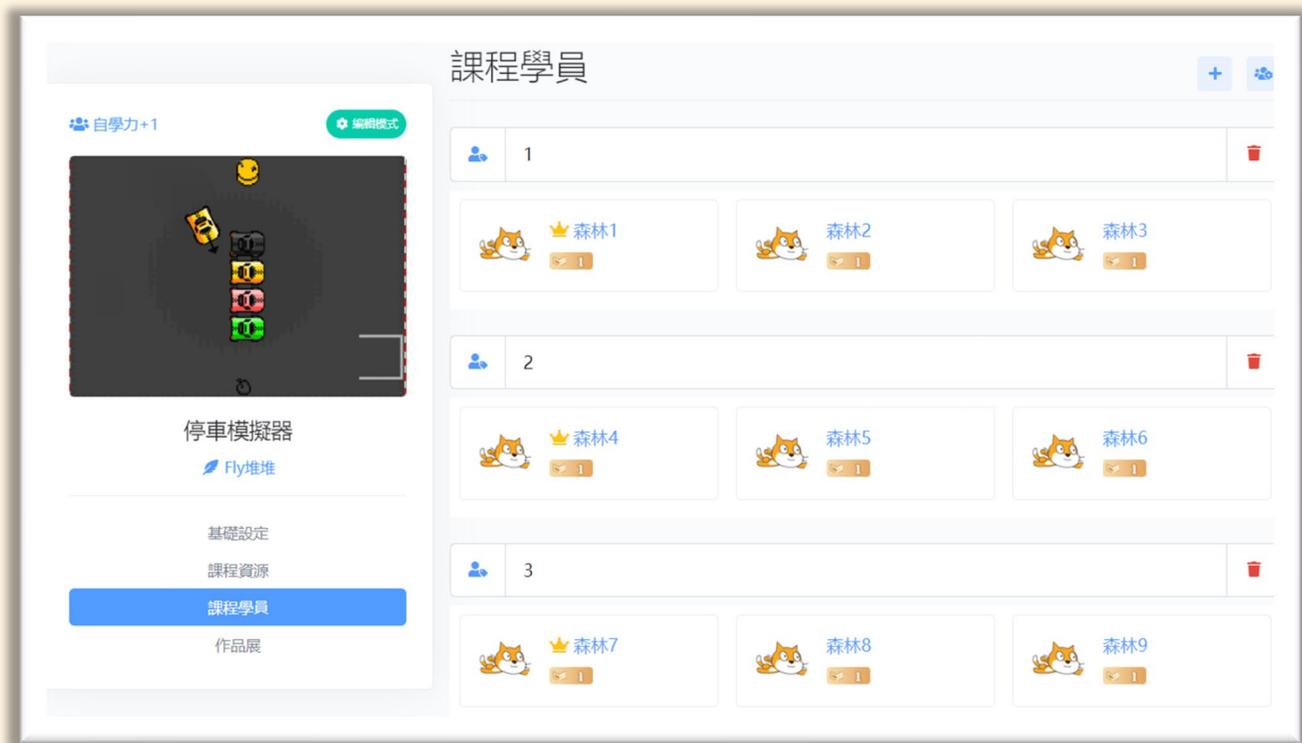


The screenshot displays a classroom management interface for '自學力+1'. At the top, there is a navigation bar with '設定' (Settings), '管理員' (Admin), '所有學生 (15)' (All Students (15)), '課程 (2)' (Courses (2)), '作業' (Assignments), '工作室 (0)' (Workshops (0)), and '動態' (Activity). On the right, there are buttons for '邀請學生' (Invite Students) and '+ 產生帳號' (+ Generate Account). Below the navigation bar, there is a grid of 12 student accounts, each represented by a Scratch cat icon, a class name (e.g., '森林1'), a dropdown menu with '1', and a unique ID (e.g., '帳號: 18e18e41978').

Class Name	ID
森林1	18e18e41978
森林2	18e18e4197e
森林3	18e18e41980
森林4	18e18e41982
森林5	18e18e41984
森林6	18e18e41986
森林7	18e18e41987
森林8	18e18e41989
森林9	18e18e4198b
森林10	18e18e4198d
森林11	18e18e4198f
森林12	18e18e41991

每個班級有自己的主網頁，主網頁中顯示該班級學生的Scratch作品，教師可以一鍵生成歸屬該班級的學生帳號。

學生分組



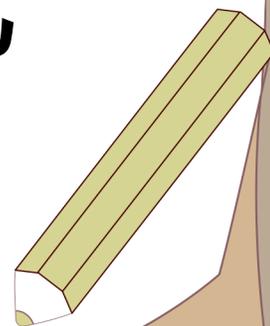
The screenshot displays a course management interface. On the left is a sidebar with a menu: '自學力+1' (Self-learning +1), '縮閉模式' (Collapse mode), '停車模擬器' (Parking simulator) with a 'Fly堆堆' (Fly Tower) sub-option, '基礎設定' (Basic settings), '課程資源' (Course resources), '課程學員' (Course students) (highlighted in blue), and '作品展' (Portfolio). The main area is titled '課程學員' (Course students) and shows three groups:

- Group 1: 1 student, 1 group leader (森林1), 1 member (森林2), 1 member (森林3).
- Group 2: 2 students, 1 group leader (森林4), 1 member (森林5), 1 member (森林6).
- Group 3: 3 students, 1 group leader (森林7), 1 member (森林8), 1 member (森林9).

Each group member is represented by a cat icon and a '1' in a box, indicating one member per group.

教師可以為學生進行分組與組長指定，
組長與老師可以審核小組的課程作業
作品是否符合要求。

課程系統



課程管理系統



設定系列課程，讓學生完成前一個課程後才能進入下一個課程。

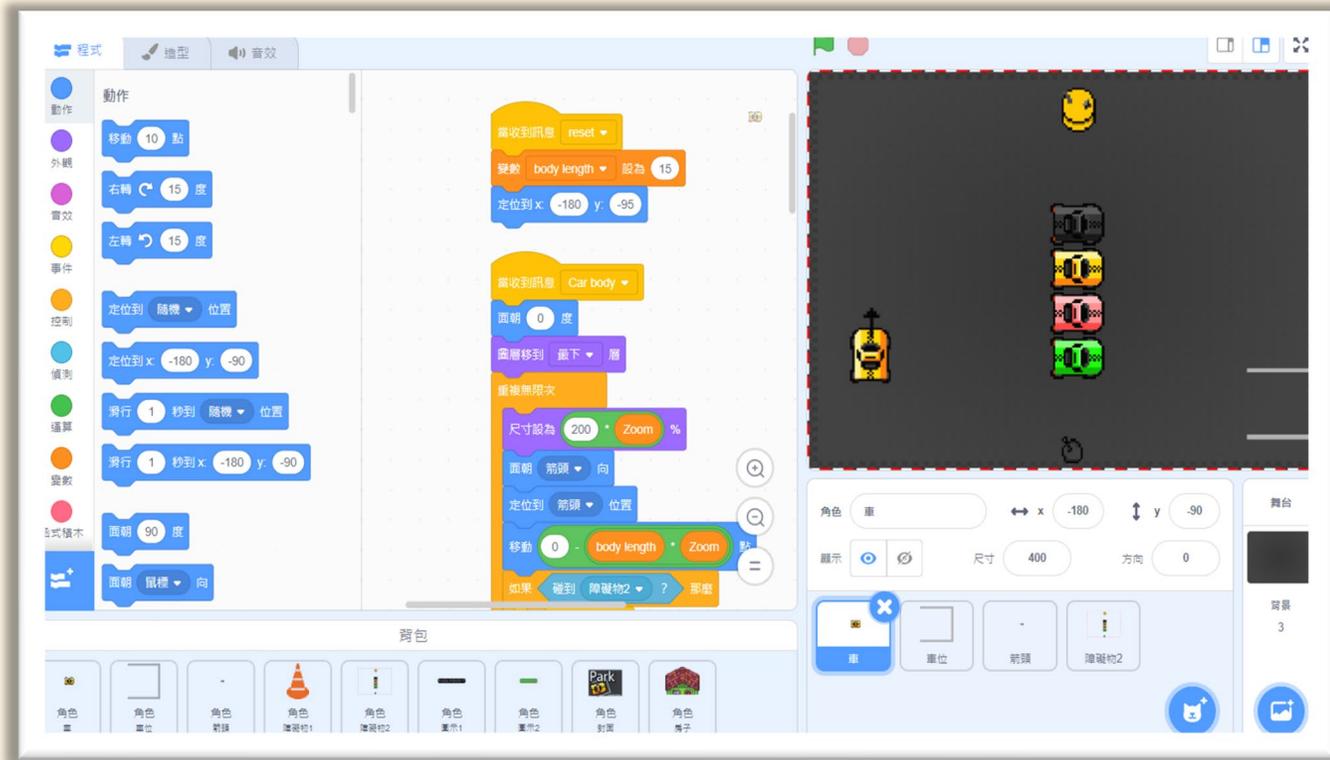
課程管理系統



The screenshot displays a user interface for a course management system. At the top left, there is a paperclip icon. The main interface is divided into two sections: "課程資源" (Course Resources) and "課程測驗" (Course Tests). The "課程資源" section includes a dropdown menu for "教學包" (Course Pack) set to "停車模擬器 (A類)" (Parking Simulator (A-type)), a version selector set to "最新版" (Latest Version), and a "儲存" (Save) button. Below these are three buttons: "初始化項目" (Initialize Item), "動態教案" (Dynamic Lesson Plan), and "素材" (Material). The "課程測驗" section is currently empty, with a question mark icon in the bottom right corner.

每個課程可以放入不同的附件，給學生當作課程素材。

課程管理系統



教師可以統一製作課程包，當學生打開課程包，項目已經內置基礎素材與程式，方便教師統一發放。