**附件一、學校申請表**

**申請學校：銅蘭國小**

**申請經費總計(107/108/109學年度)：15 萬元**

**學校聯絡人及電話：劉惠玲主任 0919-910812 或許壽亮校長 0955-535110**

**申請內容簡述：**

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 一、實施內容  (一)銅蘭國小的將利用寒暑假辦理創客研習課程，培訓師生、親子、學生Maker技能，讓學生能夠應用習得能力進行想像力發想與創作，透過期末成果展期間辦理成果展示，期望學生能應用Maker能力提升學習效能，結合新興科技幫助文蘭部落尋找文化標記及環境生態探索的創新契機，本次計畫主題：『「文」創「蘭」天 四軸初體驗』。  (二)第一年學習空拍相關知能，含四軸飛機組裝、操作、空拍技巧，與107年新電腦教室進行影片剪輯＆輸出。  (三)第二年學習四軸飛機與開放式硬體Arduino、microbit結合，並利用Ｓcratch或其他程式設計語言進行飛行器控制做出屬於自己的飛行控制器。  (四)第三年學習競速穿梭機組裝與操控，培想學生動態視覺與腦、手、眼協調能力，提升學生體感動態核心基模。  (五)讓孩子參加校內或縣內各式各樣競賽發表作品及學習觀摩，結合社區資訊工作站進行課程之延伸。  二、經費概算   |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | 第一期 「文」創「蘭」天 四軸初體驗 | | | | | | | | 項次 | 項目 | 單價 | 數量 | 單位 | 總價 | 備註 | | 1 | 講師鐘點費 | 800 | 18 | 時 | 14,400 | 6h\*3天 | | 2 | 誤餐費 | 80 | 36 | 個 | 2,880 | 12人\*3天 | | 3 | 四軸飛機 | 1,200 | 12 | 台 | 14,400 |  | | 4 | 教學用4軸 | 3,500 | 5 | 台 | 17,500 |  | | 5 | 印刷費 | 50 | 12 | 份 | 600 |  | | 6 | 雜支 | 220 | 1 | 式 | 220 | 活動相關雜項支出(5%以內) | |  | 總計 | 50,000 | | | |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | 第二期「文」創「蘭」天 四軸初體驗 | | | | | | | | 項次 | 項目 | 單價 | 數量 | 單位 | 總價 | 備註 | | 1 | 講師鐘點費 | 800 | 18 | 時 | 14,400 | 6h\*3天 | | 2 | 誤餐費 | 80 | 30 | 個 | 2,880 | 12人\*3天 | | 3 | 四軸飛機 | 1,200 | 1 | 台 | 1,200 |  | | 4 | 進階四軸飛機 | 7,000 | 2 | 台 | 14,000 |  | | 5 | 飛行眼鏡FPV | 4,000 | 4 | 組 | 16,000 |  | | 6 | 印刷費 | 50 | 12 | 份 | 600 |  | | 7 | 雜支 | 920 | 1 | 式 | 920 | 活動相關雜項支出(5%以內) | |  | 總計 | 50,000 | | | |  |  |  |  |  |  |  |  |  | | --- | --- | --- | --- | --- | --- | --- | | 第三期 「文」創「蘭」天 四軸初體驗 | | | | | | | | 項次 | 項目 | 單價 | 數量 | 單位 | 總價 | 備註 | | 1 | 講師鐘點費 | 800 | 18 | 時 | 14,400 | 6h\*3天 | | 2 | 誤餐費 | 80 | 36 | 個 | 2,400 | 12人\*3天 | | 3 | 競速四軸飛機 | 9,000 | 3 | 台 | 27,000 |  | | 4 | 飛行眼鏡FPV | 4,000 | 1 | 組 | 4,000 |  | | 5 | 印刷費 | 50 | 12 | 份 | 600 |  | | 6 | 雜支 | 1,120 | 1 | 式 | 1,120 | 活動相關雜項支出(5%以內) | |  | 總計 | 50,000 | | | |  | |