

21st Century Classroom

FRIDAY, DECEMBER 13 · 11:05 - 11:40

TRAINING 4C IN STUDENTS USING
COLLABORATIVE CODING WITH PLATFORM
SUPPORTING MICRO:BIT AND MAKECODE

運用協作式編程配合支援 MICRO:BIT 和 MAKECODE
平台訓練學生二十一世紀 4C 技能

SPEAKER: MR. MA CHEUK LUN ALVIN
(ST. HILARY'S PRIMARY SCHOOL & VNSAA. ST.
HILARY'S SCHOOL)





Our micro:bit learning from G4 to G6



MagiCube Limited

Welcome to UNA !



Sign in with Microsoft

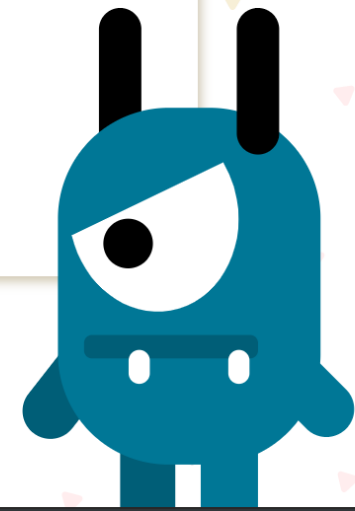
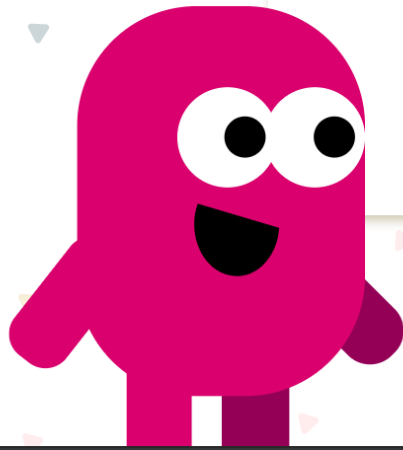


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☐ Remember Me

LOGIN

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Why start with STEM? 為何從 STEM 開始?

4

Lack of STEM teaching support
缺乏STEM 教學支援
(83% Teachers 教師 [1])

Analyze individual
participation by E-learning
以電子學習判斷
個別學生參與度



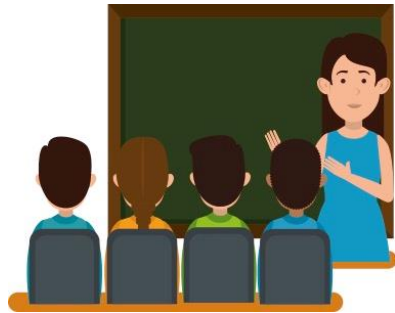
Fit for co-learning
(Exploring and Challenging)
適合協作式學習
(探索和挑戰)

New teaching concept,
no fixed curriculum yet
新興教學理念、
暫未有固定課程

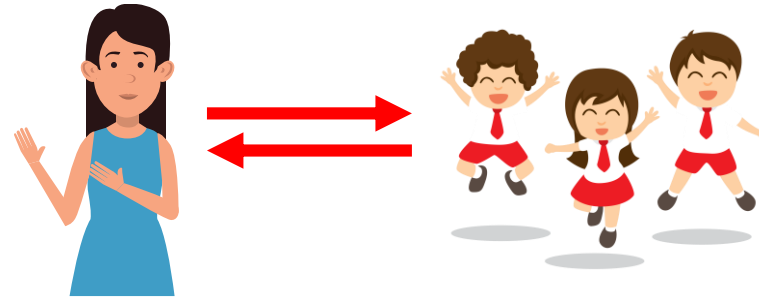
Solution - Collaborative learning

解決方法 - 協作式學習

5



Reduced one-way teaching
減少單向講授



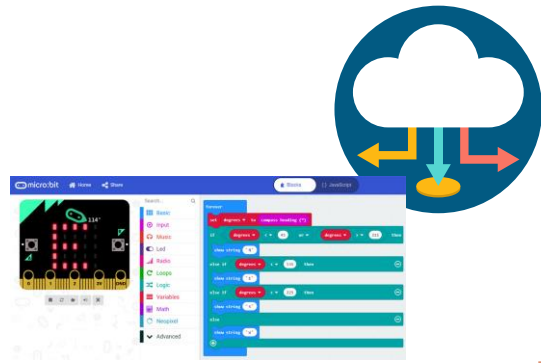
Interactive 互動
Synchronization 同步



Delegation 分工
Cooperation 合作



Discussion
討論交流



The world's 1st online
platform embedding
Microsoft **MakeCode**
全球首個嵌入微軟
MakeCode 的網上平台







Collaborative
Learning
協作式學習




4C


1. Critical Thinking 批判思考
2. Communication 溝通
3. Collaboration 協作
4. Creativity 創意

3. 點擊「分組範本」




BelC Teacher 1
 登出
 用戶資料


教學材料

 虛擬教室

 活動目錄

管理

 用戶列表

 分組範本

所有 堂課 練習

進行中的虛擬教室

排序方式：標題 ↑

+ 創建虛擬教室



BelC Teacher 1

登出

用戶資料

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分組範本

所有

堂課

練習

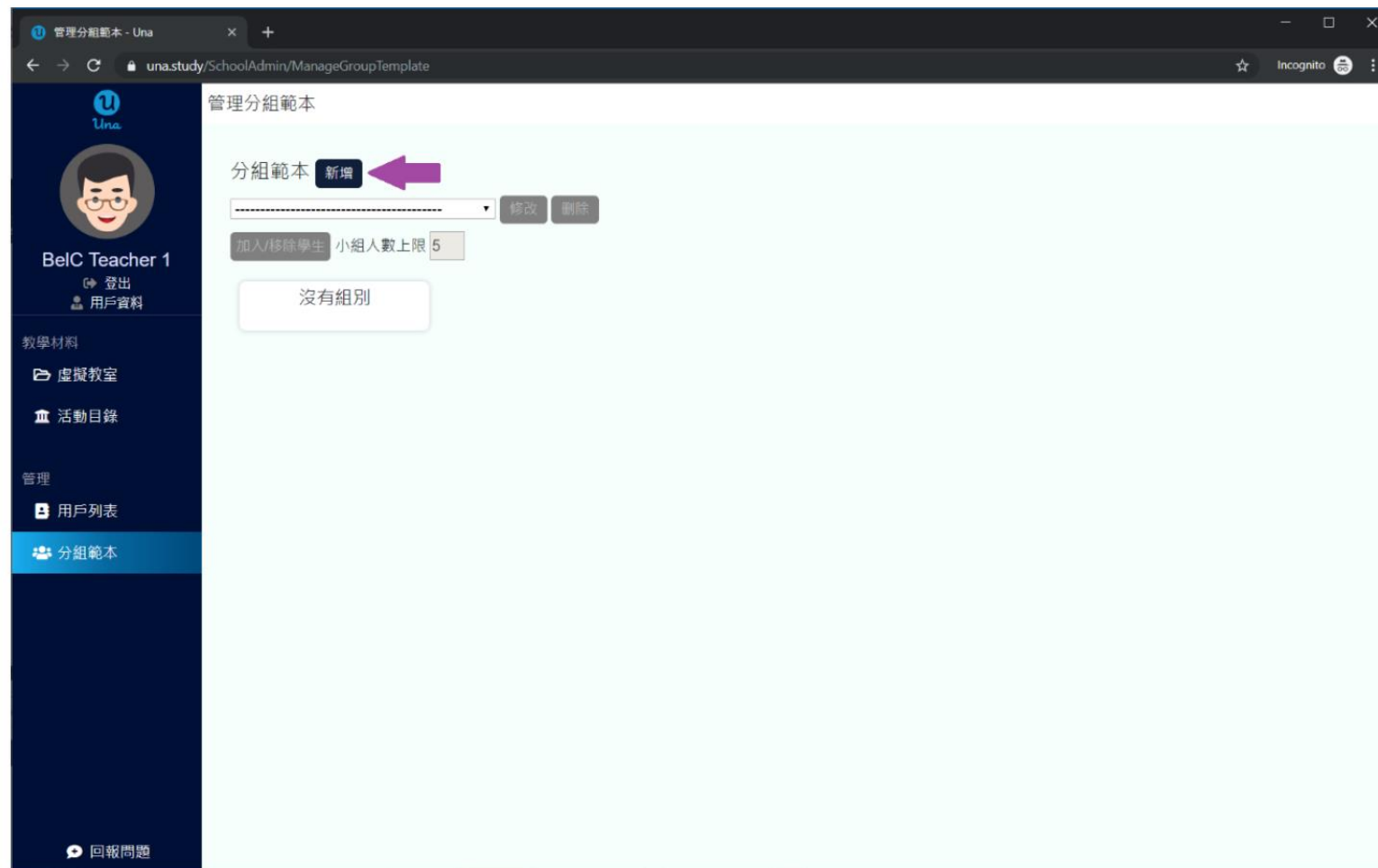
進行中的虛擬教室

+ 創建虛擬教室

排序方式：標題 ↑



4. 點擊「新增」



5. 輸入分組範本的名稱

管理分組範本

分組範本 新增

2020/2021 4A - STEM 儲存 取消

加入/移除學生 小組人數上限 5

沒有組別

Una

BelC Teacher 1

登出
用戶資料

教學材料

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分組範本

回報問題

19. 將沒有組別的學生拖曳到組別裡

中四電腦第一課 (Testing) - Una

una.study/Session/21aa2d66-407c-4661-94ec-3888fb3d70c3

中四電腦第一課 (Testing)

標題 * 中四電腦第一課 (Testing)

課程 * 認識Una、micro:bit和MakeCode

BelC Teacher 1

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分組範本

回報問題

沒有組別

BelC Student 1

BelC Student 2

BelC Student 3

BelC Student 4

BelC Student 5

BelC Student 6

BelC Student 7

BelC Student 8

BelC Student 9

BelC

Group 1

Group 2

Group 3

Group 4

Group 5

Group 6

Group 7

Group 8

Group 9

Group 10

Group 11

Group 12

Group 13

Group 14

Group 15

Group 16

Group 17

Group 18

聊天室 開

黑板

班別進度

1 micro:bit、MakeCode和Una 簡介

2 Una簡單操作

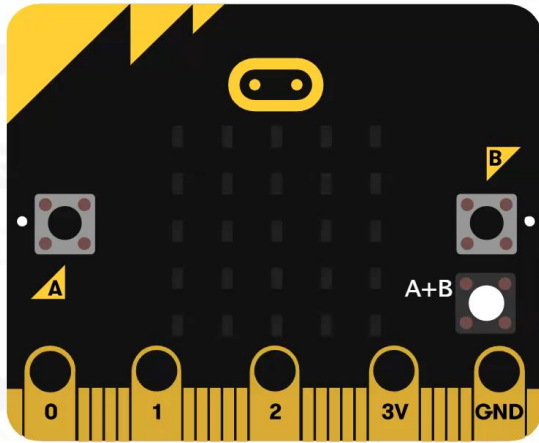
3 歷程紀錄和自動儲存

4 等待點的用途

等待點

+ 新等待點

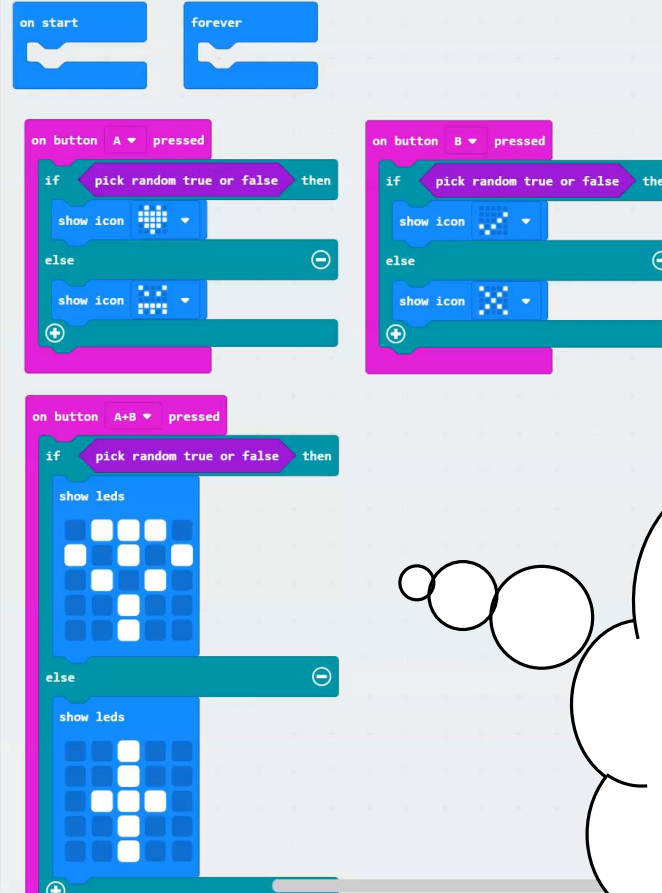
召集



Search...



- Basic
- Input
- Music
- Led
- Radio
- Loops
- Logic
- Variables
- Math
- Advanced
- Functions
- Arrays
- Text
- Game



Today's mission!!


Download

Untitled



Una

Hello,SH Student 4




SH Student 4

School: LTE 2019


Lesson

Exercise

Logout




New



LTE 2019 21st Century Classroom

Expiry Time: 2019-12-16 07:59

New




LTE 2019 21st Century Classroom

Expiry Time: 2019-12-15 07:59

New

Active Session




SH Student 2


School: LTE 2019

Lesson

Exercise

Logout






LTE 2019 21st Century Classroom

Expiry Time: 2019-12-16 07:59


New



LTE 2019 21st Century Classroom

Expiry Time: 2019-12-15 07:59

New




SH Student 3


School: LTE 2019

Lesson

Exercise

Logout






LTE 2019 21st Century Classroom

Expiry Time: 2019-12-16 07:59

New






LTE 2019 21st Century Classroom

Expiry Time: 2019-12-15 07:59

New

英文 中文 (繁體)






SH Student 1


School: LTE 2019

Lesson

Exercise

Logout






LTE 2019 21st Century Classroom

Expiry Time: 2019-12-16 07:59

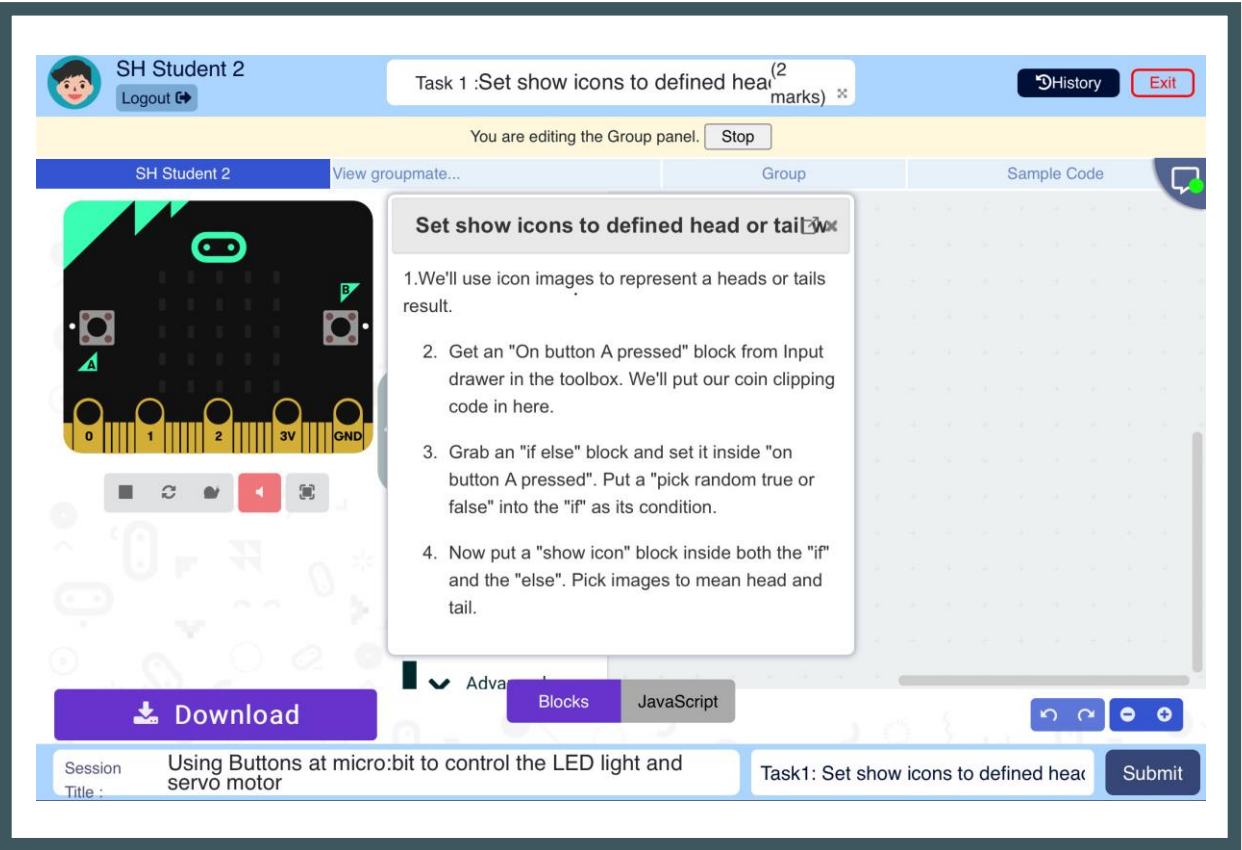
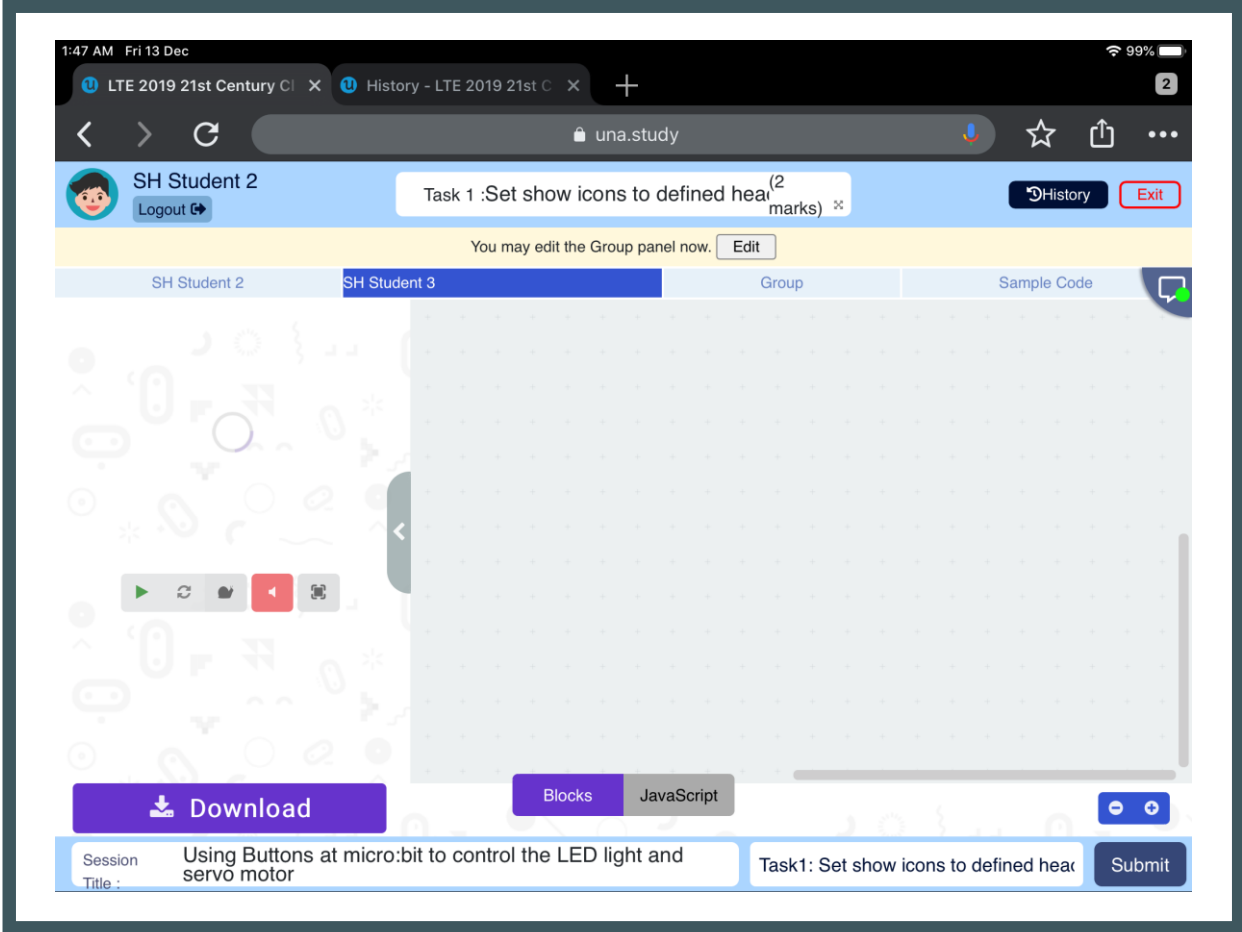
New



LTE 2019 21st Century Classroom

Expiry Time: 2019-12-15 07:59

New



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Contact Point:

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