

測驗評量設計 與製作



05

測驗評量設計與製作



數位課程製作 常見的評量形式

1. 課程調整完畢方可於開放平台上架課程。
2. 為有效評估學生學習，每一個學習單元都應該搭配評量。

課前
問卷

課後
問卷

+

評量
測驗

議題
討論

+

課堂
作業

期末
專題

05

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1) 測驗

- 是非題
- 單選題
- 複選題
- 簡答題
- 填充題
- 排序題

Multiple Choice

10.0/10.0 分數 (已納入總分)

題目1. The description of the definition of innovation should include which of the following?

- (a) new idea only
- (b) useful invention
- (c) influential invention
- (d) practical creation

✓

題目2. Which of the following are included in the innovation types of entrepreneurial act?

- (a) source of supply
- (b) business model
- (c) mergers and divestments
- (d) none of above

✓

2) 專題作業

- 申論題
- 期中期末作業

Free response

開放式問題評分

狀態

You have completed this assignment. Your final grade will be available when the assessments of your response are complete.

✓ 完成

1 | 您的作答

狀態

Your response has been submitted. You will receive your grade after all steps are complete and your response is fully assessed.

The question for this section

1. Please design 3 innovative solutions (for different segments) for increase product sales of 'pizza' during lunch time (please select a nearby pizza restaurant as a imaginary target), based on job to be done theory.

Your response

1. Energy-producing roads
Roads are usually recognized by many for their main purpose: a route that pedestrians and vehicles used for transportation and travel from point A to point B.
However, for TNO (Netherlands Organisation for Applied Scientific Research), Dymiqq (mobile equipment supplier), and Ooms Civil (construction and infrastructure company):
The road can also function as solar panels that provide electricity which could power street lights, residences, and even the vehicles that use them.
Because of this bold and daring vision, the world's first energy-generating bike lane was created.
For the "Solaroad Kil" inventors, the upper surface of the road was the largest technological obstacle as it needed to be able to capture as much sunlight as conceivable while staying sturdy and damage-resistant.
A piece can build 10m² of Solaroad - a road that produces sufficient electricity to cover a typical household's yearly electricity demands.

作業與專題部分，鑒於線上課程修課人數眾多之特性，建議採用同儕互評方式進行評分。

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1-1 資料存取的概念介紹: CSV格式

將這個網頁加入書籤

資料存取的概念介紹: CSV格式

牛刀小試

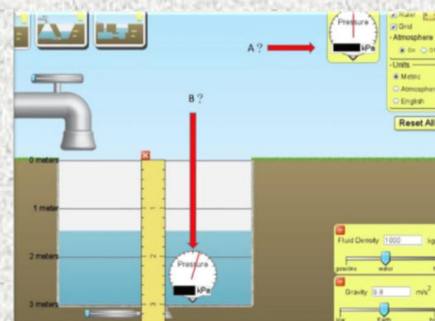
1/1 point (graded)

Tips: 請點選「提交」以完成測驗, 接下來點「continue」按鈕, 繼續觀看影片。

為避免讓人的中文題目出現亂碼的問題, 我們須將其轉換為何種編碼

ANSI

Shift_JIS



宣告一串變數

```
x, y, z = 100, 200, 300
```

```
str1, str2, str3 = 'apple', 'banana', 'orange'
```

Quiz in Video

於特定時間置入相關問題, 須作答之後才能繼續觀看影片。

Selection Game

加入闖關小遊戲, 結合測驗題目與遊戲化, 增加學生練習意願。

PhET

可以透過按鍵及滑鼠拖曳操作, 以動畫立即的反應模擬的狀況。

Flash Card

製作記憶卡, 一開始先出現題目, 點一下就會出現答案。

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請修改以下的程式，計算一個圓的半徑與面積

```
1  
2 r = 3  
3 PI = 3.14  
4  
5 circle_area = r*r*PI # please define th  
6 circle_perimeter = 2*r*PI # please defi  
7  
8 print ('The area is ', circle_area)
```

Trinket

連上網路立即寫程式，隨時檢視自己學習成效。

大綱 選擇程式

Python 3.6

```
1 import random  
2 final = [0,0,0,0,0]  
3  
4 while i < 6:  
5     tmp = random.randint(1,49)  
6     if tmp not in final:  
7         final[i]=tmp  
8         i=i+1  
9  
10 print(final)
```

Print output (drag lower right corner to resize)

0	1	2	3	4	5
6	28	35	0	0	0

Python Tutor

提供程式執行模擬器，可修改程式碼觀看不同的變化。



Online Judge

透過自動程式比對系統改作業，可以知道所寫的程式是否正確。

Overview of Laboratory features

Working with python

```
import time  
print("Sleeping")  
time.sleep(5) # sleep for a while. Inters  
print("Done Sleeping")
```

Google Colab

簡易操作與分享，讓學生有練習的平台，強化程式編碼的印象。