

شكراً لتحميلك هذا الملف من موقع المناهج الإماراتية



## حل تشك بوينت 2 Checkpoint

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تاريخ نشر الملف على موقع المناهج: 05:11:35 2023-11-01

## التواصل الاجتماعي بحسب الصف السابع



## روابط مواد الصف السابع على تلغرام

[الرياضيات](#)

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## المزيد من الملفات بحسب الصف السابع والمادة تصميم في الفصل الأول

[تشك بوينت أول Checkpoint 1](#)

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# Computing Creative Design and Innovation – Grade 7

## Checkpoint 2 – Activity

(40 marks total)

Student Name		Student ID	
School Name		Grade / Section	Date

### Practical Activity A - (20 marks)

Electronic devices are very useful for collecting and storing data.

For this activity you will create a block-based program to measure the light levels in different areas using the Maker microcontroller, LED grid and ambient light sensor.

The program will:

1. store the ambient light value in a variable.
2. output the ambient light value using the LED grid.



Copy and paste your answer in the space below

```
Arduino run first:  
  Setup  
  Version 1  
Arduino loop forever:  
  set light to Read Ambient Light  
  Display String "Light:" for 100 Milliseconds  
  Display Number light for 100 Milliseconds
```



## Practical Activity B - (20 marks)

In Activity A, you created a program to measure the light levels in different areas. Use your device to measure the light levels in 4 different areas. Note down the names of these 4 areas and the light levels for each area. Then write a python program to collect the data and then output the names and light levels for each location.

Your code must

1. Generate a loop which will repeat 4 times and do this:
  - a. Ask you to input the name of a location.
  - b. Ask you to input the light level of that location.
  - c. Output the name and the light level.



When you have finished, save the file with your name with the following pattern:

Firstname-surname-G7CP2b.py

e.g., sarah-ahmed-G7CP2b.py

When the checkpoint is complete, please share your work with your teacher.

```
main.py
1- for count in range(1,5):
2-     print(count)
3-     location = input("What is the location: ")
4-     lightValue = int(input("What is the light value: "))
5-     print(location,":", lightValue)
```

input

```
1
What is the location: []
```