Year 7 Term 2 Assessment Notification

Canberra Grammar School

Subject:	**Digital Technologies**
Task:	**Python Programming Challenge**
Due Dates:	**8:45am Monday Week 3 – Grok Learning Modules 1-3** **8:45am Monday Week 5 – Grok Learning Modules 4-6** **8:45am Monday Week 6 – Python Programming Challenge in ED STEM**
Weight:	**40%**

Content of the Task

During Term 2, you will be using Grok Learning to work through the first 6 modules of the course: **Introduction to Programming (Python).**

You are also required to complete a **Python Programming Challenge in ED STEM**, which is based on the programming concepts covered in Grok Learning.

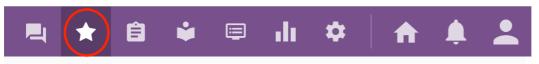## Requirements of the Task

Grok Learning

For this part, you simply need to progress through the course before the due dates.

You can track your progress here: https://groklearning.com/course/intro-python-1/

Python Programming Challenge

For this part, you will need to access the Python Programming Challenge in ED STEM, by clicking on the 'star' icon (shown below), and follow the instructions there. You will need to complete the code for 6 different python files, to demonstrate your understanding of each module shown above.

Submission instructions

Grok Learning

You simply need to progress through each module and ensure that you have successfully completed and marked the Grok Learning activities, before the due date. (1 mark awarded for each green diamond)

Python Programming Challenges

Similar to Grok Learning, you are able to run your python code and mark your submission, to see if you produce the correct output. There are some key differences, however:

- You will have one challenge with 6 different python files to edit (one based on each Grok Learning Module)
- You will need to use the terminal window in ED STEM to run and test your python scripts.
  Here is an example command:
  python task1.py
- You will lose marks for repeated submissions that are incorrect or incomplete
  (6 marks awarded for successful completion of a task, 1 mark lost for every 3 incorrect submissions)

Marking Criteria

Item	Mark	Total
Grok Learning Modules 1-3 (12 marks) DUE 8:45am Monday Week 3		
Module 1 – Talking to your computer	**4**	
Module 2 – Calculating things	**4**	
Module 3 – Making decisions	**4**	
Grok Learning Modules 4-6 (12 marks) DUE 8:45am Monday Week 5		
Module 4 – Manipulating strings	**4**	
Module 5 – Repeating things	**4**	
Module 6 – Storing lists of values	**4**	
Python Programming Challenges (36 marks)		
Task 1 – Talking to your computer	**6**	
Task 2 – Calculating things	**6**	
Task 3 – Making decisions	**6**	
Task 4 – Manipulating strings	**6**	
Task 5 – Repeating things	**6**	
Task 6 – Storing lists of values	**6**	
For each task, 1 mark will be deducted for every 3 incorrect submissions		
Penalties		
Late penalty	**10% / day**	
TOTAL	**50**	

Student Outcomes

ACTDIP027   Define and decompose real-world problems

ACTDIP029   Design algorithms represented diagrammatically and in English

ACTDIP030   Implement and modify programs in a general-purpose programming language