Unit 3 Assignment 1 – U3A1

Assignment Title:	Lesson Plan for Computer Science Concepts				
Learner:		Tutor(s):	Alex Southern Daniel North	Course:	EAS Hybrid Course for Secondary Education
Date Set:	25/03/2025	Deadline:	29/04/2025 23:59	Unit:	Unit 3

Background:

This course provides practical insights into real-world systems and creating purposeful systems by incorporating techniques and methods of problem solving through coding. It helps teachers to understand the basis of programming including the use of variables, calculation, testing, loop structures, and iteration within a computer program. Teachers will experience practical programming using high and low level languages.

In this unit you have been learning about computer science theory.

In this assignment you are going to demonstrate your understanding of one of the topics that you have covered by creating a comprehensive lesson plan for teaching that topic.

The brief:

Write a comprehensive lesson plan for teaching one of the computer science concepts we have covered in Unit 3. (50 marks)

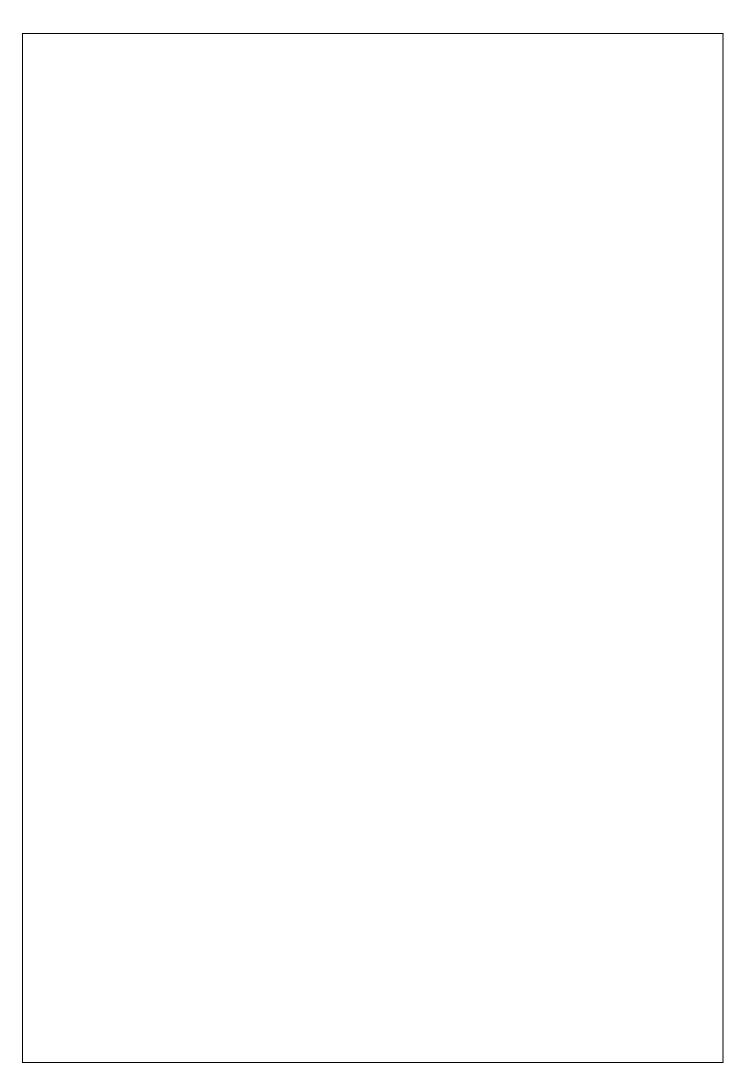Your lesson plan may be on the one of the following topics we have covered:
1. Von Neumann Architecture, the CPU & FDE cycle
2. Computer Components, I/O & Storage
3. Number Systems
4. Logical Operators & Boolean Algebra
5. File Types and Compression
6. Automated Systems
7. Networks & Infrastructure
8. Cybersecurity & Personal Privacy
9. Programme Construction
10. Operating Systems
11. Software Development Lifecycle
12. Systems Development Lifecycle & Methodology

Your lesson plan should contain breakdowns of:
- Presentations
- Activities
- Tasks
- Demonstrations
- Homework
- Resources used (external or otherwise)
- Links to the curriculum

A breakdown should include a thorough description, including relevant images if appropriate. It should also explain your reasoning behind its inclusion with links to the curriculum and benefits to the learners.

You will receive marks based on the **quality of your lesson plan**, *and* demonstration of your **understanding of the topic** you have selected.

How to present your evidence:

The learner should send an email to **alex.southern@technocamps.com** with the subject title "Your Name U3A1 Submission"

The email should contain the following attachments:
A zip folder containing the following files:
- Your finished lesson plan.
- Optional – resources you would use in the lesson

All work produced must be in your own words. Any reference to work/digital learning objects taken from other sources and re-used must be identified in a reference/bibliography section.