



Group No: 23308

Qena STEM School

Grade 12 Semester 1 2025/2026

Name

Marwan Mahmoud Mohamed Noor

ID

2323047

Cap Leader Signature

Week

1

Date

28 Sep -2 Oct 2025

Topic

Present and Justify a Problem and Solution Requirements

Portfolio

Problem to be solved

Poster

Prototype

Week

2

Date

5-9 Oct 2025

Topic

Justify a Solution Requirements Generating and Defending a Solution

Portfolio

Research

Poster

Prototype

Week

3

Date

12-16 Oct. 2025

Topic

Generating and Defending a Solution

Portfolio

Selection of Solution

Poster

Prototype

Helped define the design requirements for the smart road

Week

4

Date

19-23 Oct. 2025

Topic

Generating and Defending a Solution

Portfolio

Materials and Methods

Poster

Materials and Methods

Prototype

Contributed to preparing and explaining the first design draft of the prototype to

Week**5****Date****26-30 Oct 2025****Topic****Constructing and Testing a Prototype****Portfolio****Poster****Continue Materials and Methods****Prototype****Helped gather required materials
and started assembling the road****Week****6****Date****2-6 Nov. 2025****Topic****Constructing and Testing a Prototype****Portfolio****Improve the portfolio while working
on building the prototype****Poster****Improve the Poster while working on
building the prototype****Prototype****Continued building and stabilizing the road
model and arranging prototype components.**

Week**7****Date****9-13 Nov. 2025****Topic****Constructing and Testing a Prototype****Portfolio****Poster****Prototype**

Participated in testing the prototype performance according to design

Week**8****Date****16-20 Nov. 2025****Topic****Constructing and Testing a Prototype****Portfolio****Poster****Prototype**

Improve the portfolio while working on building the prototype

Improve the Poster while working on building the prototype

Helped improve the physical structure of the road prototype based on test feedback.

Week

9

Date

23-27 Nov. 2025

Topic

Constructing and Testing a Prototype: Evaluation, Reflection, Recommendations

Portfolio

Poster

Prototype

Assisted in retesting the prototype after modifications and checking overall

Week

10

Date

30 Nov. 4 Dec 2025

Topic

Constructing and Testing a Prototype: Evaluation, Reflection, Recommendations

Portfolio

positive results

Poster

Conclusions

Prototype

Worked on final appearance and decoration of the road prototype.

Week

11

Date

7-11 Dec 2025

Topic

Finalize the Poster, the Portfolio, and the prototype

Portfolio

Review the whole portfolio

Poster

Literature cited

Prototype

Helped finalize the prototype and prepared it for exhibition

The Team :

Team member (1)

Team member (2)

Team member (3)
