



Qena STEM School



**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**

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**Prototype**

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**Week**

**2**

**Date**

**5-9 Oct 2025**

**Topic**

**Justify a Solution Requirements Generating and Defending a Solution**

**Portfolio**

**Research**

**Poster**

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**Prototype**

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**Week**

**3**

**Date**

**12-16 Oct. 2025**

**Topic**

**Generating and Defending a Solution**

**Portfolio**

**Selection of Solution**

**Poster**

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**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**

**Continue Materials and Methods**

**Poster**

**Helped gather required materials  
and started assembling the road**

**Prototype**

**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**

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**Poster**

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**Prototype**

**Participated in testing the prototype performance according to design**

**Week**

**8**

**Date**

**16-20 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**

**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**

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**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)**