



Group No: 23308

**Qena STEM School**

**Grade 12 Semester 1 2025/2026**

**Name**

**Mohamed Mahmoud Mohamed Noor**

**ID**

**2323046**

**Cap Leader Signature**

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**Week**

**1**

**Date**

**28 Sep -2 Oct 2025**

**Topic**

**Present and Justify a Problem and Solution Requirements**

**Portfolio**

**2 grand challenges**

**Poster**

**Poster design**

**Prototype**

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**Week**

**2**

**Date**

**5-9 Oct 2025**

**Topic**

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

**Portfolio**

**2 prior solution**

**Poster**

**Poster design**

**Prototype**

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**Week**

**3**

**Date**

**12-16 Oct. 2025**

**Topic**

**Generating and Defending a Solution**

**Portfolio**

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**Poster**

## **Introduction**

**Prototype**

**Researched suitable materials for building the road base and moving cars prototype.**

**Week**

**4**

**Date**

**19-23 Oct. 2025**

**Topic**

**Generating and Defending a Solution**

**Portfolio**

## **Selection of Prototype**

**Poster**

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**Prototype**

**Assisted in reviewing panel feedback and identifying required design modifications.**

**Week**

**5**

**Date**

**26-30 Oct 2025**

**Topic**

**Constructing and Testing a Prototype**

**Portfolio**

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**Poster**

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**Prototype**

**Began constructing the prototype structure and fixing the road layout on the board.**

**Week**

**6**

**Date**

**2-6 Nov. 2025**

**Topic**

**Constructing and Testing a Prototype**

**Portfolio**

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**Poster**

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**Prototype**

**Worked on assembling moving cars and mechanical parts of the prototype.**

**Week**

**7**

**Date**

**9-13 Nov. 2025**

**Topic**

**Constructing and Testing a Prototype**

**Portfolio**

**Data Collection**

**Poster**

**results**

**Prototype**

Helped observe car movement behavior and recorded testing notes.

**Week**

**8**

**Date**

**16-20 Nov. 2025**

**Topic**

**Constructing and Testing a Prototype**

**Portfolio**

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**Poster**

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**Prototype**

Enhanced car movement stability and alignment on the road.

**Week**

**9**

**Date**

**23-27 Nov. 2025**

**Topic**

**Constructing and Testing a Prototype: Evaluation, Reflection, Recommendations**

**Portfolio**

**Continue the Data Collection**

**Poster**

**improve the Results part**

**Prototype**

**Helped evaluate prototype efficiency and supported data collection.**

**Week**

**10**

**Date**

**30 Nov. 4 Dec 2025**

**Topic**

**Constructing and Testing a Prototype: Evaluation, Reflection, Recommendations**

**Portfolio**

**Learning outcomes**

**Poster**

**Recommendations**

**Prototype**

**Assisted in organizing prototype components for a clean final look.**

**Week**

**11**

**Date**

**7-11 Dec 2025**

**Topic**

**Finalize the Poster, the Portfolio, and the prototype**

**Portfolio**

**Poster**

**Prototype**

**The Team :**

**Team member (1)**

**Team member (2)**

**Team member (3)**

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