

## Club project spotlights:

- Our Edible Elements Club explored Genetically Modified (GM) crops and how they help plants develop strong resistance against pests, especially the Fall Armyworm. Students investigated how specific genes can improve plant defenses and reduce crop damage.



**Student Voices:** • Our students enjoyed learning how science, genetics, and environmental studies come together to protect crops. Understanding Fall Armyworm behavior and how GM crops reduce damage helped them appreciate the value of biotechnology in modern farming.

# Project Report and Skill Development

## DEEPER DIVE

Ms. LOVEPREET KAUR- 09/12/2025



- Project Goals:**
- To introduce GM crops.
  - To understand how GM crops resist pests.
  - To explore factors affecting crop resistance.
  - To study Fall Armyworm behavior and its impact on crops.

- Process/ Steps:**
- Reviewed GM crops and their development.
  - Studied genes for pest-resistant maize.
  - Researched Fall Armyworm life cycle and feeding identified factors affecting its activity.
  - Made maize and Fall Armyworm models.

- Skills Learned :**
- Gained understanding of genetic modification, plant defenses, and basics of genetics, biotechnology, and pest management.
  - Improved skills in analysis, observation, teamwork, and scientific model-making.

**Challenges and solutions :**

- Understanding gene modification and the Fall Armyworm's defense system was a complex challenge.
- The variety of scientific explanations required careful sorting and clarification. By using diagrams, videos, and reliable resources, the concepts became clearer. Through organized research and teamwork, effective models and charts were created to explain GM maize traits, the Fall Armyworm life cycle and environmental factors.



### Meet the Team :



**Jasmeen Kaur**  
VII A



**Navya**  
VII C



**Gurleen Kaur**  
VII C



**Harsukhman Kaur**  
VII A



**Sahib Singh**  
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