



INSTRUCTOR: MS. WIMBERLY

COURSE: BIOLOGY H



PROJECT SUMMARY

- Students will research and create a presentation on a biotechnological method used in agriculture or a farming practice that contributes to sustainability and a greener future.



DRIVING QUESTION

- How can biotechnological innovations and farming practices contribute to a more sustainable future?



SUSTAINED INQUIRY & AUTHENTICITY

- Students engage in sustained research to understand the complex topics of biotechnology, farming practices, and sustainability. They must investigate the science behind these practices and assess their environmental impacts. To create their presentations, students analyze how their chosen innovation or farming practice contributes to a greener future, requiring them to synthesize information and make evidence-based conclusions. The project focuses on sustainability, biotechnological innovations used in agriculture, and sustainable farming practices. These are real-world challenges that directly impact the future of agriculture, the environment, and society. Students get to choose their topic of interest, which fosters a sense of ownership. The gallery walk mirrors professional settings, such as conferences or expos, where stakeholders share ideas. Since North Carolina depends on agriculture for its economy, this project connects students directly to their community's agricultural and environmental issues, further enhancing the authenticity.



STUDENT VOICE & CHOICE WITH PUBLIC PRODUCTS

- Students will present their projects in a gallery walk.



TEACHER REFLECTION

- They worked well collaboratively but they need to improve their time management and conduct deeper research. I would like to change the final product. Instead of slide presentations, posters, or infographics, I am considering having the students to write a grant proposal as a farmer wanting to complete a project to make their farm more sustainable. I think this would give them a more authentic experience that aligns with real-world applications.



STUDENT REFLECTIONS

- "This project heightened my writing skills to a new level, allowing me to understand how to better word certain phrases."



NOTED SKILLS GAINED

- INITIATIVE
- DECISION-MAKING
- LEADERSHIP
- RELIABILITY

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