



INSTRUCTOR: MS. SANDBERG

COURSE: MATH 2 HONORS



PROJECT SUMMARY



- Students will obtain a budget and house length so that they can search a fence they want to use. Once they have a fence, students will use real-world calculations to determine how much fencing they can afford within their budget. Then, they will set up and solve a perimeter equation that they can substitute into an area equation. The area equation will give them a quadratic function, which they can use the Unit 3 skills to analyze.



DRIVING QUESTION

- How can we use our knowledge of quadratics to maximize the area of a yard and analyze the function?



SUSTAINED INQUIRY & AUTHENTICITY

- Students will obtain real-world experience by learning how to budget and manage money while choosing a fence that benefits them. Then, they will apply mathematics to show how they can best use their fences.



STUDENT VOICE & CHOICE WITH PUBLIC PRODUCTS

- Presentations will be shared with peers and other teachers.



TEACHER REFLECTION

- Overall, the project went well. I had more success than previous semesters with students figuring out the math ahead of time. I love that students get to see a real world application of a quadratic, while also having some fun picking out their fences and animals.



STUDENT REFLECTIONS

- "I really understood the importance of initiative and getting on things as soon as you can. It also helped reinforce the math learned throughout the quarter."
- "It was interesting to see how much you can maximize resources when on a budget."
- "I learned multiple complex equations on perimeter and area, and how to use it in a real-world situation."
- "I learned how to push myself more and to count on others. It was difficult relying on others to do their part, but I'm glad."
- "I didn't realize how many parabolas are in real-world locations."
- "I learned the importance of organization and doing things in steps, rather than wait until last minute."



NOTED SKILLS GAINED

- REAL WORLD APPLICATION
- TEAMWORK
- ADAPTABILITY
- ORGANIZATION

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