



**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, it went well. Students really seemed to enjoy the real life component by getting to choose their fences and seeing where prices were best. There was some struggle with balancing the math and the real world to make the fence actually realistic, but overall they benefitted from it.



## STUDENT REFLECTIONS

- "I strengthened my ability to communicate with those who I have to work with. I'm in the Cosmetology program area, so I have to be able to interact with the client to be able to accomplish what they desire."
- "As this was my first PBL, I've learned how they function and what to do with future PBLs."
- "It was interesting to learn about the perimeter and area would affect the budget. The creativity with the ability to create fences based off of a limited budget and house size as well as calculate quadratics was a lot, but it pushed me outside my comfort zone."
- "Learning how to cooperate with individuals when making important decisions was vital."



## NOTED SKILLS GAINED

- PATIENCE
- COMMUNICATION
- DELEGATING
- QUADRATICS

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