



WPI

Teacher Preparatory Program in Mathematics

Shrewsbury High School

Grades 9, 10, 11 and 12

An Interactive Qualifying Project submitted to the faculty of
WORCESTER POLYTECHNIC INSTITUTE in partial fulfillment of
the requirements for the degree of Bachelor of Science

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e-Portfolio Link: <https://sites.google.com/view/juliewebstermatheducator/welcome>

Abstract

In the fall of 2019, I was a student teacher at Shrewsbury High School. During this time I worked to fulfill requirements to receive my Massachusetts Initial Teaching Licensure in Secondary Mathematics Education. I also completed my Interactive Qualifying Project within this time. I worked with students grades 9-12 and taught Algebra, Geometry and Precalculus while at Shrewsbury High School. I worked with students of all different skill sets and backgrounds, including students who did not speak any English. I worked toward meeting proficiency in the 6 elements of education: well-structured lesson plans, adjustment to practice, meeting diverse needs, safe learning environment, high expectations and reflective practice. I showed growth in all of these elements through my 16 weeks at Shrewsbury High School. This was documented through reports by both myself and reports by Dr. Plonczak.

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e-Portfolio Outline:

- I. Welcome!
- II. What I Have Learned
- III. Essential Elements of CAP
 - a. Well Structured Lesson Plans
 - b. Adjustment to Practice
 - c. Meeting Diverse Needs
 - d. Safe Learning Environment
 - e. High Expectations
 - f. Reflective Practice
- IV. My WPI Education
- V. My Classes
- VI. Acknowledgments
- VII. Resources
- VIII. Appendix
 - a. MCAS Data
 - b. Transformations Quiz
 - c. Student Work
 - d. Safe Learning Environment
 - e. Student Feedback Results
 - f. Lesson Plans