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LinkedIn | Portfolio

# Melissa Anderson

Math education specialist with a six-year background in transforming abstract math concepts into real-world applications. Develops adaptive curricula that significantly boost student engagement and performance across diverse learning environments. Recognized for pioneering game-based learning modules to develop a new generation of confident solution-finders.

Expected: May 2025

**Master of Science (M.S.)  
Curriculum Instruction**  
University of Michigan, Ann Arbor, MI

May 2018

**Bachelor of Science (B.S.)  
Mathematics**  
Wayne County Community College, Detroit, MI

- Curriculum development and instructional design
- Differentiated learning strategies
- Math competition preparation
- Productive struggle facilitation
- Scaffold and project-based learning

2022

**Early Adolescence /  
Mathematics Certificate**  
National Board for Professional Teaching Standards

2016

**Michigan State Teaching  
Certification**  
Michigan Department of Education

October 2022 – present

**Math Curriculum Developer**  
**The Art of Problem Solving, Detroit, MI**

- Develop kindergarten through 12th grade math curriculum used by approximately 500,000 students across 1,100 schools nationwide
- Partner with a team of 15 educators, designers, and software engineers to produce comprehensive math learning materials
- Improved average student digital engagement time by 122% with the development of 20 new game-based learning modules
- Launched a collaborative solution-finding feature in Ace Academy Online to increase peer-to-peer learning interactions by 60% among 100,000 users

June 2018 – October 2022

**Middle School Math Teacher**  
**Constellation Schools, Detroit, MI**

- Taught five daily math classes to approximately 150 students from sixth grade to eighth grade, covering pre-algebra, algebra, and geometry concepts
- Contributed to the development of four standardized assessments used across the district in collaboration with 12 math educators and curriculum specialists
- Created and led a six-week intensive math boot camp for 28 students at risk of failing, resulting in 25 of them successfully going on to pass their classes
- Boosted student calculation speed by an average of 35% by the end of the year with the implementation of a daily 10-minute mental math routine