





MA

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.

CONTACT

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KEY SKILLS

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

EDUCATION

- Master of Science (M.S.)
Curriculum Instruction
University of Michigan, Ann Arbor, MI
Expected: May 2025
- Bachelor of Science (B.S.)
Mathematics
Wayne County Community College, Detroit, MI

PROFESSIONAL EXPERIENCE

Math Curriculum Developer | The Art of Problem Solving, Detroit, MI | October 2022 – present

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

Middle School Math Teacher | Constellation Schools, Detroit, MI | June 2018 – October 2022

- 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

CERTIFICATIONS

- 2022 | Early Adolescence / Mathematics Certificate
National Board for Professional Teaching Standards
- 2016 | Michigan State Teaching Certification
Michigan Department of Education