

Dr. Clayton M. Edwards

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EDUCATION

University of Northern Iowa, Cedar Falls, IA

Ed. D. in Curriculum and Instruction

Dissertation: "Comparing Middle School Students' Learning and Attitudes in Face-to-Face and Online Mathematics Lessons"
2012

University of Northern Iowa, Cedar Falls, IA

M.A. in Middle Level Mathematics

Thesis: "Effects of Transitioning to a Reform Curriculum on Iowa Test of Basic Skills Scores"
2009

Iowa State University, Ames, IA

B.A. in Elementary Education

Mathematics Endorsement

Middle Level Endorsement

2005

TEACHING EXPERIENCE/OTHER EDUCATIONAL EXPERIENCES

Grundy Center Middle School, Grundy Center, IA

7th and 8th Grade Mathematics Instructor

2016 to Present

Iowa e-Learning Central

Iowa Department of Education Grade Content Expert

2022 to 2023

National Council of Teachers of Mathematics (NCTM), Reston, VA

Mathematics Teacher: Learning and Teaching PK-12 Associate Editor

2019 to Present

National Council of Teachers of Mathematics (NCTM), Reston, VA

Mathematics Teaching in the Middle School (MTMS) Editorial Panel Chair

MTMS Blog Coordinator

MTMS Twitter Chat Coordinator

2017 to 2019

National Council of Teachers of Mathematics (NCTM), Reston, VA

Mathematics Teaching in the Middle School (MTMS) Editorial Panel

MTMS Blog Coordinator

MTMS Twitter Chat Coordinator

2015 to 2019

Iowa Department of Education Statewide Mathematics Leadership Team, Johnston, IA

Statewide Mathematics Leadership Team Panel Member

2016 to Present

Iowa Council of Teachers of Mathematics

Central Rivers Regional Director

Executive Board Member

2017 to 2019

University of Northern Iowa, Cedar Falls, IA
Middle Level Coordinator
Assistant Professor of Curriculum and Instruction
2015 to 2016

Grundy Center Middle School, Grundy Center, IA
6th, 7th, and 8th Grade Mathematics Instructor
2005 to 2015

Iowa Valley Community College, Grinnell, IA
Mathematics Instructor (Adjunct)
2013 to 2014

SCHOLARLY AWARDS

Yager Exemplary Teaching Award
December 2014

University of Northern Iowa Outstanding Doctoral Dissertation Award
April 2014

Grundy County Masonic Teacher of the Year
May 2017

Grundy Center Booster Club Booster of the Year
May 2019

Top 7th and 8th Grade ISASP Growth Scores in the State of Iowa
Spring 2019 Testing Period (No testing in 2020)

Top 8th Grade and 5th Best 7th Grade ISASP Growth Scores in the State of Iowa
Spring 2021 Testing Period (No testing in 2020)

2nd Best 8th Grade and Top 7th Grade ISASP Growth Scores in the State of Iowa
Spring 2022 Testing Period

Top 8th Grade and 2nd Best 7th Grade ISASP Growth Scores in the State of Iowa
Spring 2023 Testing Period

Top 8th Grade and Top 7th Grade ISASP Growth Scores in the State of Iowa
Spring 2024 Testing Period

PUBLICATIONS

Brakonietcki, A., Amador, J. M., Glassmeyer, D. M., Edwards, C. M. and Robichaux-Davis, R. R. (2025). **One task, multiple proportional reasoning strategies.** *Mathematics Teacher: Learning and Teaching PK-12*, 118(7), 506–515.

Edwards, C., & Robichaux-Davis, R. (2024). **What Is Math?**. *Mathematics Teacher: Learning and Teaching PK-12*, 117(9), 626-627.

Edwards, C. M. and Robichaux-Davis, R. R. (2023). **Let's Be Flexible.** *Mathematics Teacher: Learning and Teaching PK-12*, 116(9), (In Press).

Edwards, C. M. and Robichaux-Davis, R. R. (2022). **The Value of Computational Algorithms.** *Mathematics Teacher: Learning and Teaching PK-12*, 115(4), 246-248.

Edwards, C. M. and Robichaux-Davis, R. R. (2021). **Old Math? New Math? Math!** *Mathematics Teacher: Learning and Teaching PK-12*, 114(9), 654-656.

Barlow, A. T., Edwards, C. M., Robichaux-Davis, R. R., and Sears, R. (2020). **Enhancing and Transforming Virtual Instruction.** *Mathematics Teacher: Learning and Teaching PK-12*, 113(12), 972-982.

Edwards, C. M. and Robichaux-Davis, R. R. (2020). **Digital First: Not Just an Add-On.** *Mathematics Teacher: Learning and Teaching PK-12*, 113(6), 442-443.

Edwards, C. M. and Robichaux-Davis, R. R. (2019). **Investigating a Super-Bear: One Class's Journey Toward Inquiry-Based Mathematics.** *Mathematics Teaching in the Middle School*, 24(7), 406-412.

Edwards, C. M. (2018). **MTMS Favorites: Never say anything a kid can say!** *Mathematics Teaching in the Middle School*, 24(1), 19.

Edwards, C. M. (2018). **MTMS: The final volume.** *Mathematics Teaching in the Middle School*, 24(1), 4.

Edwards, C. M., Rule, A. C., & Boody, R. M. (2017). **Middle school students' mathematics knowledge retention: Online or face-to-face environments.** *Journal of Educational Technology and Society*, 20(4), 1-10.

Edwards, C. M. (2017). **MTMS: A teacher's perspective.** *Mathematics Teaching in the Middle School*, 23(1), 7.

Edwards, C. M. (2017). **Implementing mathematical problem-solving tasks into the middle school classroom.** *Iowa Council of Teachers of Mathematics*, 41, 16-18.

Rule, A. C., Atwood-Blaine, D., Edwards, C. M., & Gordon, M. M. (2016). **Art-integration through making dioramas of women mathematicians' lives enhances creativity and motivation.** *Journal of STEM Arts, Crafts, and Constructions*, 1(2), 84-103.

Rule, A. C., Atwood-Blaine, D., Edwards, C. M., & Gordon, M. M. (2016). **Art-integration through making dioramas of women mathematicians' lives enhances creativity and motivation.** *Journal of STEM Arts, Crafts, and Constructions*, 1(2), 84-103.

Edwards, C. M. (2015). **Free online resources not to miss for teaching middle school mathematics.** *Iowa Council of Teachers of Mathematics*, 41, 47-54.

Edwards, C. M. (2014). Featured Blogger for NCTM's Blogarithm October and November.

Standardized Mathematics Testing Success without Substandard Classes: Part One

https://www.nctm.org/Publications/MTMS-Blog/Blog/Standardized-Mathematics-Testing-Success-without-Substandard-Classes_-Part-1/

Standardized Mathematics Testing Success without Substandard Classes: Part Two

https://www.nctm.org/Publications/MTMS-Blog/Blog/Standardized-Mathematics-Testing-Success-without-Substandard-Classes_-Part-2/

Verbal and Written Mathematical Understanding: Part One

https://www.nctm.org/Publications/MTMS-Blog/Blog/Written-and-Verbal-Mathematical-Understanding_-Part-1/

Verbal and Written Mathematical Understanding: Part Two

https://www.nctm.org/Publications/MTMS-Blog/Blog/Written-and-Verbal-Mathematical-Understanding%E2%80%94How-to-Get-Started_-Part-2/

Edwards, C. M. (2013). **Self-paced mathematical instruction.** *Mathematics Teaching in the Middle School*, 19(2), 236.

Edwards, C. M., & Rule, A. C. (2013). **Attitudes of middle school students: Learning online compared to face-to-face.** *Journal of Computers in Mathematics and Science Teaching*, 32(1), 49-66.

Edwards, C. M., Rule, A. C., & Boody, R. M. (2013). **Comparison of face-to-face and online mathematics learning of sixth graders.** *Journal of Computers in Mathematics and Science Teaching*, 32(1), 25-47.

Edwards, C. M. (2012). **Online learning: A middle school mathematics perspective.** *Mathematics Teaching in the Middle School*, 18(4), 244-247.

Edwards, C. M., & Townsend, B. E. (2012). **Diary of change: Shifting mathematical philosophies.** *Mathematics Teaching in the Middle School*, 18(3), 174-179.

PRESENTATIONS/PROFESSIONAL DEVELOPMENT

Washington, D.C.

Nation Council of Teacher of Mathematics Annual Meeting

Using Inventive Strategies to Promote a Mathematician Identity

October 2023

Salt Lake City, UT
Nation Council of Teacher of Mathematics Regional Conference
Leveraging Electronic Resources and 1:1 Mathematics to Improve Discourse and Justification
October 2019

Iowa City, IA
Iowa Statewide Assessment of Academic Progress ISASP/Iowa Core Alignment Panel Member (1 of 4 for Middle School Team)
August 2018

Mount Pleasant , IA
Invited Discussion/Observation with District Math Teachers/Coaches
Self-Pacing in the Mathematics Classroom
February 2018

Marshalltown, IA
Invited Discussion with District Math Teachers/Coaches
Implementing Tasks in the Mathematics Classroom
January 2018

Johnston, IA
Heartland AEA Technology Integration and Collaboration Session
1:1 Mathematics: A Summary of My Daily Use of 1:1
October 2017

West Des Moines, IA
Iowa Council of Teachers of Mathematics Conference
Middle Level Task-Based Application and Research
October 2017

Gilbert, IA
Invited Discussion with District Math Teachers/Coaches
Self-Pacing in the Mathematics Classroom
September 2017

Green Lake, WI
Wisconsin State Math Conference
Math, 1:1, and Middle Level
May 2017

Santa Fe, NM
MidSchool Math Conference
Math, 1:1, and Middle Level
March 2017

West Des Moines, IA
Iowa Council of Teachers of Mathematics Conference
Direct Versus Inquiry-Based Instruction in Middle School Mathematics; A Study
October 2016

West Des Moines, IA
Iowa Council of Teachers of Mathematics Conference
Math, 1:1, and Middle Level
October 2016

Abingdon, IL
Mathematics 5-12 Professional Development
Math and 1:1
August 2016

Des Moines, IA

Iowa 1:1 Institute
Math, 1:1, and Middle Level
April 2016

Columbus, OH
Association of Middle Level Educators Conference (AMLE)
The Dos and Don'ts of Gifted Education (with Jean Schneider and Lynn Ensworth)
October 2015

West Des Moines, IA
ICTM ISTS Conference
Task-Based Learning in the Mathematics Classroom
September 2015

Des Moines, IA
Iowa 1:1 Institute
Self-Paced Instruction, Task-Based Learning, and Other 1:1 Uses in the Mathematics Classroom
April 2015

Ames, IA
Iowa Council of Teachers of Mathematics Pre-Conference
What You've Always Wanted to Know About the Iowa Core
October 2014

Creston, IA
21st Century Learners' Conference
Self-Paced Instruction, Task-Based Learning, and Other 1:1 Uses in the Mathematics Classroom
October 2014

Underwood, IA
21st Century Learners' Conference (Invited Speaker)
Self-Paced Instruction, Task-Based Learning, and Other 1:1 Uses in the Mathematics Classroom
October 2014

Cedar Falls, IA
University of Northern Iowa Annual Graduate Faculty Meeting (Invited Speaker)
Hybrid and Online Graduate Programs
April 2014

Des Moines, IA
Iowa 1:1 Institute
Self-Paced Instruction, Task-Based Learning, and Other 1:1 Uses in the Mathematics Classroom
April 2014

Cedar Falls, IA
AEA 267 Regional 1:1 Conference
Self-Paced Mathematics Classroom Utilizing 1:1 Technology
December 2013

Atlanta, GA
International 1:1 Computing Conference
Self-Paced Instruction and Task-Based Learning in a 1:1 Mathematics Environment
December 2013

Cedar Falls, IA
AEA 267 Regional 1:1 Conference
Self-Paced Mathematics Classroom Utilizing 1:1 Technology
November 2012

Des Moines, IA
Iowa 1:1 Institute

Implementing 1:1 Technology into a Mathematics Classroom

April 2012

Cedar Falls, IA

AEA 267 Regional 1:1 Conference

Implementing 1:1 Technology into a Mathematics Classroom

December 2011

PUBLICATION REVIEWER

Mathematics Teacher: Learning and Teaching PK-12 (MTLT) for NCTM

2019 to Present

National Council of Teachers of Mathematics (NCTM) Teaching Children Mathematics (TCM)

2015 to 2019

National Council of Teachers of Mathematics (NCTM) Mathematics Teaching in the Middle School (MTMS)

2012 to 2019

MEMBERSHIPS

Association for Middle Level Education (AMLE)

2015 to Present

Iowa Council of Teachers of Mathematics (ICTM)

2015 to Present

National Council of Teachers of Mathematics (NCTM)

2007 to Present

ICTM NEWSLETTER/JOURNAL ARTICLES

The Case to Axe Standardized Testing (January 2021)

<https://www.iowamath.org/Articles/9747843>

Success on ISASP (January 2020)

<https://www.iowamath.org/Articles/8985018>

Two Sides to Sharing Mathematical Ideas (Winter 2017)

Math Props (Spring 2017)

RETIRED PERSONAL EDUCATIONAL RESOURCES

Blog

pagingdoctormath.blogspot.com