GRASSROOTS WORKSHOPS

WORKSHOP FACT SHEET

How To Integrate Coding Into Math Class With Scratch

by Ashley Goetz and Mike Larson

$49.00

(**$58.80** for 12 months access)

View Workshop

Subjects: Mathematics, STEM, Technology

Start Date: Immediate access

Access: 4 months

Timing: Self-paced with no set meeting time

PD Hours: 2 Professional Development Hours

Credits: 1 Graduate Level PD Credit Available

Topics Covered:

- Scratch
- STEM
- Mathematics
- Coding
- Programming

One tree will be planted per registration (partnership with One Tree Planted).

About This Workshop

Coding literacy is a key component of being college and career ready, yet incorporating it can feel overwhelming. As classroom math teachers ourselves, we also deal with these struggles and want to show you the strategies we use.

The mini workshop will show you how to use the coding language Scratch to teach specific math standards. You'll begin by exploring how coding can help your students better understand the math you teach them. Next, you'll learn how to introduce your students to Scratch and integrate it into your math lessons. Then, we'll discuss how to facilitate a coding lesson including strategies and lesson starters that emphasize sense making and critical thinking. Finally, we'll examine how to check for understanding and provide student feedback. No prior experience with Scratch Coding is needed to take this workshop.

If you have any questions, please email us at mikeandashley@csandmath.org.

About the Instructors

Ashley Goetz

Hi, my name is Ashley Goetz and I am a middle school math educator. Early on in my teaching career I fell in love with finding ways to enhance student understanding and experience in the classroom by using technology. This extended from using Desmos, Geogebra, Makerspace tools, and eventually into integrating code within my math classroom. When I saw how powerful coding in the math classroom was for my students, I partnered with Mike Larson to create csandmath.org, a website that curates coding in math lessons and resources.

Additionally, I have a passion for finding ways to make education more equitable for underrepresented groups of students. Being a part of the Desmos Cohort, the MN Code Savvy Teacher Coding Cohort, and an instructor for Girls Who Code have been experiences that have guided the way I teach with keeping each student's needs and interests at the core.

Mike Larson

Hey I'm Mike Larson and I've taught a wide range of math courses spanning middle and high school for 12 years. I've always had an affinity for edtech which began with Number Munchers in elementary school, TI Calculators in high school, and then spreadsheets, Geogebra, and Desmos as a developing teacher. In 2015 I spent some time volunteering at a Coderdojo on the University of Minnesota Campus and became a member of the Code Savvy's teacher coding cohort. What I stumbled into was a golden world at the intersection of coding and math which revolutionized everything I do in my own classroom, and I'm here to share it all with you.

My educational philosophy is grounded in sense-making and constructionism. Math classrooms are so much more valuable, and fun, when we shift the goal of passing tests to understanding fundamentals that we can use to make memorable things!