

# LEARNING & TEACHING WITH LEARNING TRAJECTORIES

EARLY MATH: BIRTH TO AGE 8

LEARNINGTRAJECTORIES.ORG

## A WEB-BASED TOOL FOR EARLY EDUCATORS

### LEARN ABOUT HOW YOUNG CHILDREN THINK | MATHEMATICS "THEIR WAY"

See examples of how children think and learn about mathematics and get research-based ideas on teaching mathematics to young children.

### SEE THE LEARNING TRAJECTORIES | VIEW CLIPS OF REAL EXAMPLES

Clips of classroom instruction and children working on math problems reveal different levels of mathematical thinking. [LT]2 includes alignments with standards and assessments, as well as software for children. [LT]2 enables teachers to help children find the mathematics in—and develop the mathematics from embracing art, stories, puzzles, and games.

### RESEARCH-BASED | BUILT BY THE CREATORS OF BUILDING BLOCKS

Drs. Julie Sarama & Doug Clements designed the math curriculum Building Blocks & its professional learning tool, Building Blocks Learning Trajectories, funded by the Heising-Simons Foundation and the Bill and Melinda Gates Foundation. Large-scale studies provided evidence of the effectiveness of these tools, validated in the "What Works Clearinghouse" and praised on the cover of the New York Times.

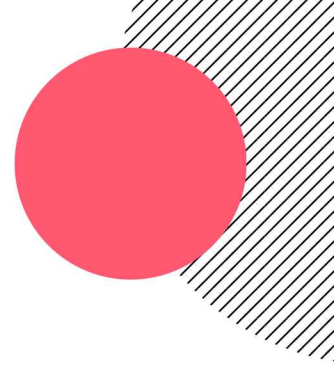


IF YOU WOULD LIKE A GUIDEBOOK OR HAVE ANY QUESTIONS,  
CONTACT DOUGLAS H. CLEMENTS, DOUGLAS.CLEMENTS@DU.EDU,  
JULIE SARAMA, JULIE.SARAMA@DU.EDU, OR  
SHANNON STARK GUSS SHANNON.STARKGUSS@DU.EDU, OR CALL (303) 871-3895.  
PLEASE WRITE US IF YOU WISH TO CONTRIBUTE VIDEOS TO [LT]2!

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7,000 users in September of 2021  
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& 117 different states and provinces

# [LTLT]



## LEARNING TRAJECTORIES

Covering birth through age 8, includes the areas of Number, Operations and Algebraic Thinking, Geometry, Measurement and Data. Illustrative videos of children; Activities for small groups, whole class, and individual learners.

## ASSESSMENT & STANDARDS ALIGNMENT

- Teaching Strategies GOLD (TSG)
- Common Core State Standards (CCSSM)
- New York PreK (NYPK)
- California PreK (CAPK)
- Individual State Standards
- Head Start:  
Early Learning Outcomes Framework (ELOF)

## ADDITIONAL RESOURCES

- Accommodations for children with disabilities
- Support for Dual Language Learners (Spanish)
- Guidance to Differentiate Instruction
- Examples to guide Professional Development
- Tips for Read Alouds in Math
- Information for Families
- Computer Games for Young Mathematicians

