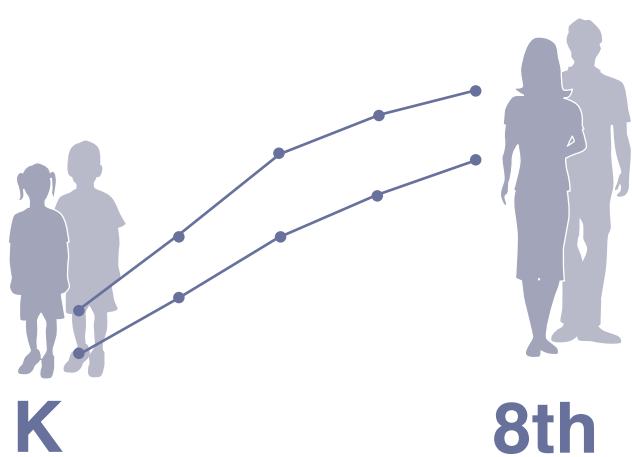


how early math helps our future



Children who have low math scores in the beginning of their kindergarten year continue to lag behind their better prepared peers through the 8th grade. [1]

Predictor of later success

Early math skills have the **greatest predictor** of later success. Across 6 longitudinal studies, the top 3 predictors of later achievement are school-entry math, reading, and attention skills.[2]

0-6
years old

Research on children's learning in the first six years of life demonstrates the importance of early experiences in mathematics. [3]

Engaging & Encouraging

A child's early encounters with math **develops their confidence** in their ability to understand and use math skills. These positive experiences can help develop traits which contribute to their future success in and out of school. [3]

curiosity

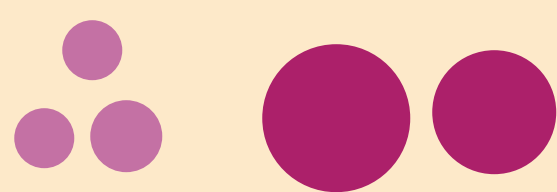
flexibility

imagination

persistence

inventiveness

What do early math experiences look like? [4]



sorting, matching & comparison

everyday items in the house, toys, big vs. small
developing scientific inquiry skills



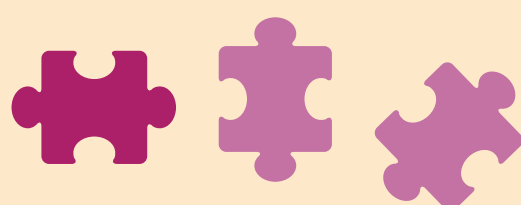
building blocks

wooden blocks, legos, sculpting, building sets
developing spatial skills



games

board games, card games, dice
developing problem-solving, addition, language



patterns

puzzles, art, shape play and labeling, dance
helps prediction, connection making and reasoning skills

Sources:

[1] http://earlymath.org/earlymath/wp-content/uploads/2014/09/Math-Matters-Report_2ndEd1.pdf

[2] School readiness and later achievement. Dev Psychol. 2008 Jan;44(1):232
as published on: <https://www.ncbi.nlm.nih.gov/pubmed/18020822>

[3] Engaging young children in Mathematics: Standards for early childhood mathematics education
Douglas H. Clements (Editor), Julie Sarama (editor) as published on:

<http://www.nctm.org/Standards-and-Positions/Position-Statements/Mathematics-in-Early-Childhood-Learning/>

[3] http://earlymath.org/earlymath/wp-content/uploads/2014/09/Math-Matters-Report_2ndEd1.pdf

[4] <http://www.greatschools.org/gk/articles/early-math-equals-future-success/>

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