

ARTS + STEM = LEARNING



ARTS WORK!

Wolf Trap's model program led to **26+ days** of math learning²

Research shows arts integration leads to

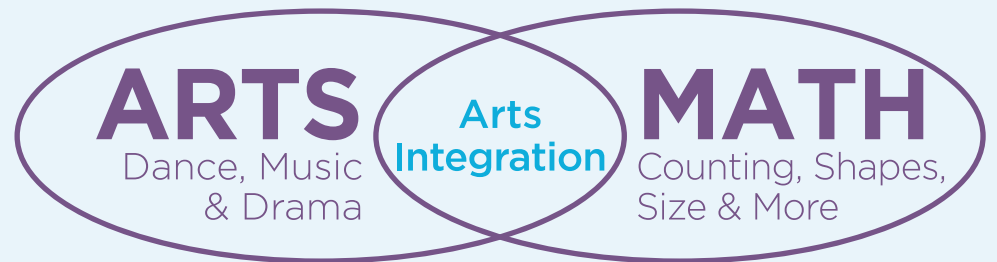
HIGHER

math achievement¹

EARLY MATH SKILLS are the strongest predictor of later academic achievement³

WHY

CHILDREN LEARN BEST BY DOING the arts and STEM are natural partners



RHYTHMS/PATTERNS=PRE-ALGEBRA

HOW

Each teacher received up to **101 HOURS** of PROFESSIONAL DEVELOPMENT

Teacher
+ Wolf Trap Teaching Artist
+ Wolf Trap Professional Development

BETTER MATH KNOWLEDGE

Wolf Trap teachers scored **62% HIGHER** on overall arts integration measures, and **150% HIGHER** in linking arts with math⁴

The Wolf Trap APPROACH

WOLF TRAP teaching artists **COLLABORATE** with teachers in the classroom



INSTRUCTIONAL content aligned **TO NATIONAL AND STATE STANDARDS**



28 STATES INCLUDING **17 AFFILIATE SITES**



WOLF TRAP

FOUNDATION FOR THE PERFORMING ARTS

SOURCES

1. Interpretations derived from results of a four-year study of Wolf Trap's Early Childhood STEM Learning Through the Arts: An experimental application of Wolf Trap's arts education program model. Ludwig, M. and Song, M., (2014). "Final Report: Findings from the Evaluation of the Wolf Trap Arts in Education Model Development and Dissemination Grant." American Institutes for Research.
2. Song, M., Ludwig M., and Marklein M.B., (2016). "Arts Integration: A Promising Approach to Improving Early Learning." American Institutes for Research.
3. Duncan, G. J., Dowsett, C.J., Classens, A., Magnuson, K., Huston, A.C., Klebanov, P., et al. (2007). School readiness and later achievement. *Developmental Psychology*, 43, 1428-1446.
4. Ludwig and Song, opt cit, pg. 16, Exhibit 9.