

early childhood
STEM LEARNING
through the arts
WORKS



IT WORKS!

Wolf Trap’s model increases an average student’s math rank by **7-8 PERCENTILES**²

Wolf Trap students have **HIGHER** math achievement¹

EARLY MATH SKILLS are the strongest predictor of later academic achievement⁴

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



RHYTHMS/PATTERNS=PRE-ALGEBRA

PAT-PAT-CLAP PAT-PAT-CLAP PAT-PAT-CLAP

HOW

Each teacher receives 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 math³

The Wolf Trap APPROACH

16 Sessions
of classroom residencies with **WOLF TRAP** teaching artists


Teacher training, teacher and teaching artist **COLLABORATION**


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


28 STATES INCLUDING 17 AFFILIATE SITES

SOURCES 1. Interpretations derived from results of a four-year study of Wolf Trap’s Early Childhood STEM Learning Through the Arts. 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. Ibid. Based on effect sizes of .17 in first year, and .21 in second year of Wolf Trap program. See pg. 16.
3. Ibid. See pg. 16, Exhibit 9.
4. 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.