early childhood

STEM LEARNING

through the arts

VVORKS



Wolf Trap students have

HIGHER

math achievement

EARLY MATH SKILLS

are the strongest predictor of later academic achievement

IT WORKS!

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

WHY

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

ARTS

Dance, Music

& Drama

Arts Integration MATH
Counting, Shapes,
Size & More

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 math

The Wolf Trap
APPROACH

16 Sessions

of classroom residencies with **WOLF TRAP**

teaching artists

Teacher training, teacher and teaching artist







- 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.
- contine won Trap Arts in Education Model Development and Dissemination Grant, American Institute 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.
- 3 d. 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.