ARTS+STEM = LEARNING



Research shows arts integration leads to

ARTS WORK!

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

HIGHER

math achievement

EARLY MATH SKILLS

are the strongest predictor of later academic achievement³

WHY

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







- 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 Pessarch
- 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.