



ARIZONA DEPARTMENT OF EDUCATION

Each reading program will be scored using a rubric. A response must meet **all** the criteria in each scored area to be included on the K-3 MOWR vetted reading program list. Peer Review will be noted but does not disqualify overall approval.

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|---|-------------------------------------|---|
| Study: Integrating Literacy and Science Instruction in Kindergarten: Results From the Efficacy Study of Zoology One Date of Study: 2016-2018 Grade Levels of Study: Kinder Core Program's Marketed Name: Arc Core Kindergarten American Reading 2019 | | |
| | Rating or Measure Select: Y or N | Rationale |
| ESSA Evidence Tier | Tier 4 | |
| Independent Researchers (Y/N) | Y | Published in Journal of Research on Educational Effectiveness, University of Penn, Penn State University |
| Established Measure (Y/N) | Y | Woodcock Reading Mastery Test Developmental Reading Assessment AIMS Web Pre and posttest assessments of all |
| Sample Size | Y | 21 schools in school district of Philadelphia Students – 1,589 Cohort 1 - 12 schools, 40 kinder classrooms 2016-17 Cohort 2 – 21 schools, 31 kinder classrooms 2017-18 |

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|--------------------|---|---|
| | | Table 2 showed demographics |
| Research Design | Y | Longitudal, randomized control trial, multi-site |
| Outcome | N | Positive impact on reading comprehension and letter naming fluency. With high-fidelity implementation of program it can yield additional impact on decoding. Students scored significantly higher on passage comprehension but not word identification, word attack, or word comprehension. |
| Effect Size | N | Passage comprehension p=0.035 Letter naming p= 0.044 |
| *Peer Review (Y/N) | Y | Routledge, Taylor and Francis Group |

MOWR Committee findings:

- The research does not meet the Top 3 ESSA Tiers of evidence.
- The P-Value does not confirm the likelihood of the positive outcomes of this research are due to use of this reading program.
- The research outcomes were not significantly higher on several indicators (word identification, word attack, and word comprehension).
- Will not be on the MOWR Core Program Vetted List.