



# 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.

Study: <a href="#">The Effects of Bookworms Literacy Curriculum on Student Achievement in Grades 2-5</a> Date of Study: Dec. 3, 2023 Grade Levels of Study: 2-5 Core Program's Marketed Name: Open Up Resource Bookworms K-5 Reading and Writing		
	Rating or Measure Select: Y or N	Rationale
ESSA Evidence Tier	2	Quasi experimental
Independent Researchers (Y/N)	Y	School of Education, University of Delaware Published in the Scientific Studies of Reading Journal
Established Measure (Y/N)	Y	MAP scores, RIT scores, MAP Growth reading assessment 2-5  From fall 2015-16 (baseline) through winter of 2018-19
Sample Size	Y	Grades 2-5, 17 elementary schools in one rural district. Have treatment and control groups. Total of 8,806 students in 7 cohorts. Demographics are included. No attrition rate that we could find.
Research Design	Y	Causal interference on the impact of Bookworms though a comparative interrupted time series design.

Outcome	Y	Results confirm a significant positive impact of Bookworms on reading achievement overall, with gains compounding over time. At the end of one year the effect of Bookworms on 3 <sup>rd</sup> grade MPA scores was almost 1 RIT score point.
Effect Size	Y	The linear effect of Bookworms during implementation was significant P-value <.01.
*Peer Review (Y/N)	Y	Published in Scientific Studies of Reading Journal

MOWR Committee completed review on 3/6/24.

MOWR Committee findings:

- Meets ESSA evidence Tier 2.
- Will stay on the MOWR Core Program Vetted List.