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| jjj | FORM D: Research-Based Effectiveness Determination  (Core only) 2019 MATH Adoption |

REQUIRED for Core Math titles submitted for adoption consideration. Cells expand for your response.

Available online at**:** [**https://webnew.ped.state.nm.us/bureaus/instructional-materials/publishers/**](https://webnew.ped.state.nm.us/bureaus/instructional-materials/publishers/)

**Provider/Publisher: \_**     **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Grade(s): \_**     **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Title: \_**     **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**ISBN: \_**     **\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

***Form D must accompany any submission of core instructional materials for New Mexico’s review.***

Notification as to whether or not submitted materials are found to be research-based will be communicated to the Provider/Publisher by **March 11, 2019.**

**According to New Mexico regulation: “Research-based effectiveness”** means the demonstrated effectiveness of instructional material in supporting students to meet or exceed grade-level goals according to New Mexico’s content standards, and as demonstrated by the best available evidence for curricula in the relevant grade and subject. For core instructional material, evidence shall include an independently conducted experimental or quasi-experimental research study, **or** review by nationally-recognized, independent experts in curricula review. LEA-created core instructional materials may also demonstrate effectiveness using correlational evidence that students using the core instructional material meet or exceed grade-level proficiency, as measured by the state assessment.

***We are submitting this core instructional material with the following type of evidence of research-based effectiveness:***

Independently conducted experimental or quasi-experimental research study [complete Option 1]; OR

Review by nationally recognized, independent experts in curricula review [complete Option 2]; OR

LEA-created materials with correlational evidence that students meet or exceed grade-level proficiency, as measured by the state assessment [complete Option 3].

***Certification that the information contained in this submission is accurate:***

Signature of authorized Provider/Publisher representative:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Title: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**OPTION 1: Submitting results of independently conducted experimental or quasi-experimental research study**

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| **Criteria** | **Response by Provider/Publisher** | **For State Only** |
| **Research Study** | Link to Study: [fill in]  Date Study Conducted: [fill in]  Certification that study was performed using New Mexico’s current content standards.  Certification that assessments of student learning were determined using New Mexico’s state assessment or equivalent. | Both certifications must be made, or this set of core instructional materials is “Not Recommended and Not Adopted.” |
| **Level of Evidence** | Tier 1– Strong Evidence: supported by one or more well-designed and well-implemented randomized control experimental studies. [Complete “Tier 1: Strong Evidence” below.]  Tier 2 – Moderate Evidence: supported by one or more well-designed and well-implemented quasi-experimental studies [Complete “Tier 2: Moderate Evidence” below.]  Tier 3 – Promising Evidence: supported by one or more well-designed and well-implemented correlational studies (with statistical controls for selection bias).  Tier 4 – Demonstrates a Rationale: practices that have a well-defined logic model or theory of action, are supported by research, and have some effort underway by an SEA, LEA, or outside research organization to determine their effectiveness. | Study must meet Tier 1 or Tier 2 level of evidence -- as substantiated by the appropriate certifications, below, and by the study itself -- or this set of core instructional materials is “Not Recommended and Not Adopted.” |
| **Tier 1: Strong Evidence** | Certification that:  This study uses random assignment to ensure that the treatment and control groups are as similar as possible.  Levels of attrition are low, such that attrition does not compromise the outcome of the random assignment.  Confounding factors do not compromise randomization. (Ex: Intervention students are all English learners but comparison group has no English learners.) | All three certifications must be made -- and substantiated by a review of the study -- or this set of core instructional materials is “Not Recommended and Not Adopted.” |
| **Tier 2: Moderate Evidence** | Certification that:  This study lacks randomization but leverages some natural change to create groups like comparing results from before and after an intervention.  The factor that creates the different group is consistent and clear, with at least two groups for comparison. (Ex: a change in policy allows comparisons before and after.)  The study takes steps to demonstrate baseline equivalence, in that the groups were equivalent prior to intervention. | All three certifications must be made -- and substantiated by a review of the study -- or this set of core instructional materials is “Not Recommended and Not Adopted.” |

**OPTION 2: Review by nationally recognized, independent experts in curricula review**

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| **Criteria** | **Response by Provider/Publisher** | **For State Use Only** |
| **Curriculum Review** | Link to Curriculum Review: [insert link]  Date Curriculum Review Conducted: [fill in]  Curriculum Review’s Determination of Standards Alignment: [fill in -- for example “Meets,” or “Partially Meets” or “Does Not Meet” expectations]  Certification that study was performed using New Mexico’s current content standards (or similar national standards that reflect New Mexico’s standards) | If Curriculum Review Determination is “Meet Expectations,” continue. Otherwise, this set of core instructional materials is “Not Recommended and Not Adopted.”  Certification must be made, or this set of core instructional materials is “Not Recommended and Not Adopted.” |
| **Certification that Review is Independent** | Certification that review is Independent:  No compensation was provided to the reviewer(s) for or by the Provider/Publisher or anyone affiliated with the Provider/Publisher (for the review or for any other purpose) for the last three years;  AND  No reviewer(s) and no affiliate organization conducting the review have any connection to Provider/Publishers (i.e., authorship, reviewers, advisors) nor do they receive any type of support from Provider/Publishers (i.e., sponsorships with affiliated meetings or organizational groups);  AND  The curriculum review is freely available and not proprietary. | All three certifications must be made -- and substantiated by “Evidence Regarding Reviewers” -- or this set of core instructional materials is “Not Recommended and Not Adopted.” |
| **Certification that Review is Expert** | Certification that review is Expert:  Reviewers demonstrate knowledge of New Mexico (or similar) content standards and implementation of these standards through curriculum in K-12 settings;  AND  The team of reviewers includes a minimum of three people;  AND  Reviewers have conducted multiple previous reviews of materials for alignment to college and career readiness standards for core instructional materials; OR  Reviewers have experience in designing instructional materials in K-12 settings; OR  Reviewers are educators experienced in utilizing instructional materials in K-12 settings. | At least one certification must be made in each of the three categories -- and substantiated by “Evidence Regarding Reviewers” -- or this set of core instructional materials is “Not Recommended and Not Adopted.” |
| **Certification that Review is Nationally**  **Recognized** | Reviewer(s) have produced reviews that have been utilized within and/or outside of New Mexico to support state and district adoption of instructional materials. | Certification must be made -- and substantiated by “Evidence Regarding Reviewers” -- or this set of core instructional materials is “Not Recommended and Not Adopted.” |
| **Evidence Regarding Reviewers** | To support the certifications made above regarding reviewer expertise and national recognition:   * Describe the selection, training, and experience of reviewers, highlighting information that supports the claims you made in the above certifications: [Insert relevant data or links to such data]\* * Provide information on the organization conducting the review (if any), highlighting information that supports the claims you made in the above certifications: [Insert relevant data or links to such data] | Information provided must substantiate the above certifications, or this set of core instructional materials is “Not Recommended and Not Adopted.” |
| **Evidence of Research Basis for Review** | Describe the review process, mindful of the determination the State will make regarding the research basis for this review (see “For State Only” column):   * Provide review criteria: [Insert or provide link to description of criteria used for this review] * Provide review process: [Insert or provide link to description of the process used for this review] | Information provided must substantiate the following two claims, or this set of core instructional materials is “Not Recommended and Not Adopted.”   * Review criteria attend not just to the presence of standards, but to the underlying research-based aspects on which the standards are designed (i.e., learning progressions, instructional shifts, etc.). * Sufficient indicators and evidence are available to assess whether Provider/Publishers’ materials fully meet the intent of New Mexico’s grade level content standards and goals; and materials as implemented are expected to support teachers and students. |

**OPTION 3: LEA-created materials with correlational evidence that students meet or exceed grade-level proficiency, as measured by the state assessment**

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| **Criteria** | **Response by Publishing LEA** | **For State Use Only** |
| **Study of LEA-Created Materials** | Link to Study: [insert link]  Date Study Conducted: [fill in]  Certification that study was performed using New Mexico’s current content standards.  Certification that students using these core instructional materials meet or exceed grade-level proficiency.  Certification that study was performed using New Mexico’s state assessment. | All three certifications must be made -- and substantiated by the evidence provided and by the study itself -- or this set of core instructional materials is “Not Recommended and Not Adopted.” |
| **Evidence** | Summarize the findings of your correlation showing that students using these core instructional materials meet or exceed grade-level proficiency, as measured by the state assessment: [Insert summary] |  |