

Board of Trustees

Meeting Date: _____

Executive Summary of Board Agenda Item

Approval of Memorandum of Understanding between UT Austin and Canutillo ISD - Meadows Precision Math Interventions

Subject/Title for Agenda Posting: Interventions

Justification Statement: The purpose of this project is to provide students with early interventions in mathematics instruction. The goal is to close the achievement gap that exists in young children.

Purpose of Agenda Item:

☐ Information ☒ Discussion ☒ Action

Item Type:

☒ Curriculum & Instruction ☐ Human Resources ☒ Business Services

Staff Responsible:

Jessica Arellano Jessica Arellano - Interim Superintendent
Signature of Requester(s)
Jessica Arellano
Signature of Presenter(s)
[Signature] 9/17/25
Business Services Approval (Initials) Date

Agenda Summary:

The math achievement gap has been documented to develop as early as kindergarten for some students. CISD is seeking the Board's approval to extend our partnership with UT Austin in grade 1 for the 2025-2026 academic year. PM-1 is a small group intervention comprised of eight units (40 lessons) that provide first-grade students opportunities to apply and improve their understanding of whole numbers and operations and engage in purposeful mathematics discourse in the context of real-world science-based activities.

In conjunction with the MOU, the attached contract includes the monetary reimbursement amount that will be provided to the district for the hiring of grade 1 math interventionists.

RECOMMENDATION: C&I recommends that the Board approve the extension of this partnership with UT Austin in support of early math interventions in first grade.

PRIOR BOARD ACTION:

AWARDED:

AWARDED AMOUNT:

AMOUNT(S):

ACCOUNT NO(S):

PROCUREMENT METHOD TYPE: (3 Quotes, Cooperative Contract Quotes, Sole Source, Formal Bid)
MOU

REQUESTING DEPARTMENT:
Curriculum and Instruction

CONSEQUENCES OF NON-APPROVAL:

Non-approval will result in an opportunity loss. CISD would have to use the district's limited resources (tutors, teachers, etc.) to plan and deliver early math interventions. This partnership provides guidance and professional development for teachers and staff.

IMPLEMENTATION TIMELINE:

Precision Math will be implemented throughout the 25-26 SY upon approval.

ATTACHMENT(S): ✓ 1) MOU and Supporting Documents





**Meadows Center for Preventing Education Risk and Canutillo Independent School District
Precision Mathematics - First Grade Project**



Name	Job Title	Employer	City	CISD Elem. Campuses	On-Site
Denise Almeida	Graduate Research Assistant	The University of Texas at Austin	Austin	Pending	
Claudia Casillas	Senior Field Trainer/Analyst	The University of Texas at Austin	El Paso	Yes	Yes
Christian Doabler	Associate Professor	The University of Texas at Austin	Austin	Yes	Yes
Jenna Gersib	Research Assistant Professor	The University of Texas at Austin	Austin	Yes	Yes
Shadi Ghafghazi	Graduate Research Assistant	The University of Texas at Austin	Austin	No	No
Derek Kosty	Associate Scientist	Oregon Research Institute	Springfield, OR	No	No
Maria Longhi	Project Director	The University of Texas at Austin	Houston	Yes	Yes
Leticia Martinez	Senior Project Manager	The University of Texas at Austin	Austin	Yes	Yes
Megan Rojo	Assistant Professor	University of North Texas	Denton	Yes	Yes
Jasmine Zimmerman	Field Trainer Analyst	The University of Texas at Austin	Austin	Yes	Yes

Canutillo ISD
071907

RELATIONS WITH EDUCATIONAL ENTITIES

GN
(EXHIBIT)



Canutillo Independent School District

CONFIDENTIALITY OATH FORM

I, Denise Almeida am proposing to conduct research in the
Canutillo ISD.

Upon approval by the Superintendent's Cabinet, I will access educational records of students
involved in the research.

I hereby certify that I have been informed of and I understand the following:

Educational records examined by me in connection with the performance of my role as a
researcher conducting an approved study are confidential records as defined by the Family
Educational Rights and Privacy Act (FERPA), and the contents are not to be released except
in compliance with the terms of that statute. 20 U. S. C., 1232g; 45CFR, 99.11 et. seq.

Denise de Almeida
Signature

7-22-2025
Date

Submit to Canutillo Independent School District, Associate Superintendent, P.O. Box 100,
Canutillo, TX 79835; (915) 877-7476 or fax (915) 877-7477.

Canutillo ISD
071907

RELATIONS WITH EDUCATIONAL ENTITIES

GN
(EXHIBIT)



Canutillo Independent School District

CONFIDENTIALITY OATH FORM

I, Jenna Gersib am proposing to conduct research in the
Canutillo ISD.

Upon approval by the Superintendent's Cabinet, I will access educational records of students
involved in the research.

I hereby certify that I have been informed of and I understand the following:

Educational records examined by me in connection with the performance of my role as a
researcher conducting an approved study are confidential records as defined by the Family
Educational Rights and Privacy Act (FERPA), and the contents are not to be released except
in compliance with the terms of that statute. 20 U. S. C., 1232g; 45CFR, 99.11 et. seq.

Jenna Gersib
Signature

7-22-25
Date

Submit to Canutillo Independent School District, Associate Superintendent, P.O. Box 100,
Canutillo, TX 79835; (915) 877-7476 or fax (915) 877-7477.

Canutillo ISD
071907

RELATIONS WITH EDUCATIONAL ENTITIES

GN
(EXHIBIT)



Canutillo Independent School District

CONFIDENTIALITY OATH FORM

I, Leticia Martinez am proposing to conduct research in the
Canutillo ISD.

Upon approval by the Superintendent's Cabinet, I will access educational records of students
involved in the research.

I hereby certify that I have been informed of and I understand the following:

Educational records examined by me in connection with the performance of my role as a
researcher conducting an approved study are confidential records as defined by the Family
Educational Rights and Privacy Act (FERPA), and the contents are not to be released except
in compliance with the terms of that statute. 20 U. S. C., 1232g; 45CFR, 99.11 et. seq.

Leticia R. Martinez
Signature

7/25/2025
Date

Submit to Canutillo Independent School District, Associate Superintendent, P.O. Box 100,
Canutillo, TX 79835; (915) 877-7476 or fax (915) 877-7477.

Canutillo ISD
071907

RELATIONS WITH EDUCATIONAL ENTITIES

GN
(EXHIBIT)



Canutillo Independent School District

CONFIDENTIALITY OATH FORM

I, Jasmine Zimmerman, am proposing to conduct research in the Canutillo ISD.

Upon approval by the Superintendent's Cabinet, I will access educational records of students involved in the research.

I hereby certify that I have been informed of and I understand the following:

Educational records examined by me in connection with the performance of my role as a researcher conducting an approved study are confidential records as defined by the Family Educational Rights and Privacy Act (FERPA), and the contents are not to be released except in compliance with the terms of that statute. 20 U. S. C., 1232g; 45CFR, 99.11 et. seq.

Jasmine Kay
Zimmerman

Digitally signed by
Jasmine Kay Zimmerman
Date: 2025.07.22
14:19:06 -0500

Signature

Date

Submit to Canutillo Independent School District, Associate Superintendent, P.O. Box 100,
Canutillo, TX 79835; (915) 877-7476 or fax (915) 877-7477

Canutillo ISD
071907

RELATIONS WITH EDUCATIONAL ENTITIES

GN
(EXHIBIT)



Canutillo Independent School District

CONFIDENTIALITY OATH FORM

I, Christina J. Sullivan, am proposing to conduct research in the Canutillo ISD.

Upon approval by the Superintendent's Cabinet, I will access educational records of students involved in the research.

I hereby certify that I have been informed of and I understand the following:

Educational records examined by me in connection with the performance of my role as a researcher conducting an approved study are confidential records as defined by the Family Educational Rights and Privacy Act (FERPA), and the contents are not to be released except in compliance with the terms of that statute. 20 U. S. C., 1232g; 45CFR, 99.11 et. seq.

Christina J. Sullivan
Signature

7/27/07
Date

Submit to Canutillo Independent School District, Associate Superintendent, P.O. Box 100, Canutillo, TX 79835; (915) 877-7476 or fax (915) 877-7477

Canutillo ISD
071907

RELATIONS WITH EDUCATIONAL ENTITIES

GN
(EXHIBIT)



Canutillo Independent School District

CONFIDENTIALITY OATH FORM

I, Christian Doabler am proposing to conduct research in the
Canutillo ISD.

Upon approval by the Superintendent's Cabinet, I will access educational records of students
involved in the research.

I hereby certify that I have been informed of and I understand the following:

Educational records examined by me in connection with the performance of my role as a
researcher conducting an approved study are confidential records as defined by the Family
Educational Rights and Privacy Act (FERPA), and the contents are not to be released except
in compliance with the terms of that statute. 20 U. S. C., 1232g; 45CFR, 99.11 et. seq.

7-22-25

Signature

Date

Submit to Canutillo Independent School District, Associate Superintendent, P.O. Box 100,
Canutillo, TX 79835; (915) 877-7476 or fax (915) 877-7477.

Canutillo ISD
071907

RELATIONS WITH EDUCATIONAL ENTITIES

GN
(EXHIBIT)



Canutillo Independent School District

CONFIDENTIALITY OATH FORM

I, Shadi Ghafghazi am proposing to conduct research in the
Canutillo ISD.

Upon approval by the Superintendent's Cabinet, I will access educational records of students involved in the research.

I hereby certify that I have been informed of and I understand the following:

Educational records examined by me in connection with the performance of my role as a researcher conducting an approved study are confidential records as defined by the Family Educational Rights and Privacy Act (FERPA), and the contents are not to be released except in compliance with the terms of that statute. 20 U. S. C., 1232g; 45CFR, 99.11 et. seq.

Shadi Ghafghazi
Signature

July 23, 2025
Date

Submit to Canutillo Independent School District, Associate Superintendent, P.O. Box 100,
Canutillo, TX 79835; (915) 877-7476 or fax (915) 877-7477.

Canutillo ISD
071907

RELATIONS WITH EDUCATIONAL ENTITIES

GN
(EXHIBIT)



Canutillo Independent School District

CONFIDENTIALITY OATH FORM

I, Derek Kosty am proposing to conduct research in the
Canutillo ISD.

Upon approval by the Superintendent's Cabinet, I will access educational records of students
involved in the research.

I hereby certify that I have been informed of and I understand the following:

Educational records examined by me in connection with the performance of my role as a
researcher conducting an approved study are confidential records as defined by the Family
Educational Rights and Privacy Act (FERPA), and the contents are not to be released except
in compliance with the terms of that statute. 20 U. S. C., 1232g; 45CFR, 99.11 et. seq.

A handwritten signature in black ink, appearing to read "Derek Kosty", is written over a horizontal line.

Signature

7/22/2025

Date

Submit to Canutillo Independent School District, Associate Superintendent, P.O. Box 100,
Canutillo, TX 79835; (915) 877-7476 or fax (915) 877-7477.

Canutillo ISD
071907

RELATIONS WITH EDUCATIONAL ENTITIES

GN
(EXHIBIT)



Canutillo Independent School District

CONFIDENTIALITY OATH FORM

I, Maria Longhi am proposing to conduct research in the
Canutillo ISD.

Upon approval by the Superintendent's Cabinet, I will access educational records of students
involved in the research.

I hereby certify that I have been informed of and I understand the following:

Educational records examined by me in connection with the performance of my role as a
researcher conducting an approved study are confidential records as defined by the Family
Educational Rights and Privacy Act (FERPA), and the contents are not to be released except
in compliance with the terms of that statute. 20 U. S. C., 1232g; 45CFR, 99.11 et. seq.

Maria Longhi

7-22-25

Signature

Date

Submit to Canutillo Independent School District, Associate Superintendent, P.O. Box 100,
Canutillo, TX 79835; (915) 877-7476 or fax (915) 877-7477.

Canutillo ISD
071907

RELATIONS WITH EDUCATIONAL ENTITIES

GN
(EXHIBIT)



Canutillo Independent School District

CONFIDENTIALITY OATH FORM

I, Megan Rojo am proposing to conduct research in the
Canutillo ISD.

Upon approval by the Superintendent's Cabinet, I will access educational records of students
involved in the research.

I hereby certify that I have been informed of and I understand the following:

Educational records examined by me in connection with the performance of my role as a
researcher conducting an approved study are confidential records as defined by the Family
Educational Rights and Privacy Act (FERPA), and the contents are not to be released except
in compliance with the terms of that statute 20 U. S. C., 1232g; 45CFR, 99.11 et. seq.

Megan Rojo
Signature

7/22/2023
Date

Submit to Canutillo Independent School District, Associate Superintendent, P.O. Box 100,
Canutillo, TX 79835; (915) 877-7476 or fax (915) 877-7477.

Memorandum of Understanding

Meadows Center for Preventing Educational Risk and Canutillo Independent School District Precision Mathematics - First Grade Project

The Meadows Center for Preventing Educational Risk (MCPER) at The University of Texas at Austin seeks to continue its collaboration with Canutillo Independent School District (CISD) during the 2025-2026 school year. Specifically, the purpose of this continuation is to further examine the effects of the first-grade Precision Mathematics (PM -1) intervention on the outcomes of first-grade students who face mathematics difficulties. PM-1 is a small-group intervention comprising eight units (32 lessons) that provide first-grade students opportunities to apply and improve their understanding of (a) whole numbers and operations, (b) measurement and data analysis, and (c) engage in purposeful mathematics discourse in the context of real-world science-based activities. This study is funded by the National Science Foundation (Grant: 2010550).

In support of this research, the MCPER team and CISD agree to the following:

MCPER will:

- Communicate with elementary campuses and first-grade teachers who agree to participate in the study.
- Obtain teacher consent with participating first-grade teachers.
- Observe all district and school policies.
- Assist district in identifying district-employed interventionists to teach PM -1 groups.
- Obtain parent written consent and student assent
- Randomly assign 8 teacher identified students per first-grade classroom at participating schools to one of two study conditions, PM-1 or control condition
- Assist district/schools with scheduling of PM-1 groups.
- Administer pre- and post-test mathematics assessment battery to first-grade students.
- Provide PM-1 focused professional development to district-employed interventionists and a subsequent professional development workshop mid-way through the intervention.
- Provide the PM-1 intervention materials at no cost.
- Provide ongoing coaching and support of PM-1 interventionists.
- Conduct observations of intervention groups, core mathematics instruction, and business-as-usual intervention procedures in participating classrooms.
- Collect daily audio recordings of lesson implementation.
- Provide \$595 stipend to participating teachers.
- Administer teacher surveys.
- Provide reimbursement or payment to district for intervention time of district-employed interventionists at a rate of \$23.50 per hour.
- Protect the privacy and confidentiality of all participants and their data.
- Agree to comply with all requirements of the Family Educational Rights and Privacy Act (FERPA) and with all rules and guidelines stipulated in their agreement with the university Internal Review Board (IRB).
- Report study findings to district and school personnel.
- Conduct a 30-min focus group interview with participating teachers at the conclusion of the study regarding their impressions of the impact of the PM-1 program on their students.

CISD will:

- Identify and assign appropriately aligned duties to identified PM -1 interventionists.
- Coordinate initial communication between MCPER team and participating campuses and first-grade teachers.

- Identify the first-grade students in each participating classroom based on current level of performance on mathematics.
- Allow participating teachers to distribute and collect parental consent forms.
- Allow MCPER staff to assess first-grade students in participating classrooms at two timepoints (pre and post).
- Provide space at each participating campus for PM-1 assessment and intervention instruction to take place.
- Allow MCPER team to observe intervention groups, core mathematics instruction, and business-as-usual intervention procedures in participating classrooms.
- Allow district-employed interventionists to audio-record their daily intervention instruction.
- Allow participating teachers to complete a consent form and surveys regarding their teaching background and classroom characteristics.
- Provide student-level demographic and assessment data, including: Student name, Race/Ethnicity, Gender, DOB, Grade Level, School Homeroom Teacher, Free and Reduced Lunch Status, LEP Status (e.g., ESL, LEP, ELL), Special Education Status, Special Education Category, retention data, TELPAS scores for kindergarten and first grade years, and students' BOY, MOY, EOY district math and reading scores.
- Allow participating teachers to attend a 30-min focus group interview at the conclusion of the study regarding their impressions of the impact of the PM-1 program on their students.

Any modifications to the current agreement will be submitted and discussed between the MCPER team and the Canutillo ISD team prior to any proposed changes. The agreement will be effective as of date signed and will remain active for one year thereafter.

This agreement can be terminated by either entity by providing not less than sixty (60) days advance written notice.

Nothing in this Agreement is intended to nor shall it operate to confer any third-party beneficiary rights in favor of any person or entity.

Agreed by:

UT Representative

Signature: 

Printed Name: Christian Doabler, Ph.D

Position: Principal Investigator, Precision Mathematics First Grade Study

District Representative

Signature: 

Printed Name: Jessica Arellano

Position: Superintendent, Canutillo Independent School District



APPROVAL

August 12, 2025

Christian Doabler
1912 SPEEDWAY
AUSTIN, TX 78712

+1 512 471 7256
cdoabler@austin.utexas.edu

Dear Christian Doabler:

On 8/12/2025, the IRB approved the following submission:

Protocol Information	Submission Details
Type of Review:	Modification / Update
Title:	Broadening Participation in Mathematics for English Learners with Mathematics Difficulties: A Multi-Site Impact Study
Investigator:	Christian Doabler
IRB ID:	2020060103-MOD14
Funding:	Name: National Science Foundation (NSF), Grant Office ID: 201903938, Funding Source ID: 2010550
Grant ID:	None
IND, IDE or HDE:	None
Documents Reviewed:	<ul style="list-style-type: none">• ALMA Assessment, Category: Other;• HRP UT 901 Form: Precision Mathematics_8-7-25, Category: IRB Protocol;• Pennies Assessment, Category: Other;• PM Parent Consent - English_Updated_8-7-25, Category: Consent Form;• PM1 Parental Consent Spanish Version_8-5-25, Category: Consent Form;• Student Assent-English_7-22-25, Category: Consent Form;• Student Assent-Spanish_7-22-25, Category: Consent Form;• Teacher Consent Form_Updated_8-7-25, Category: Consent Form;



The IRB approved the protocol on 8/12/2025.

This study does not require continuing review. However, investigators are required to continue to meet all institutional requirements for conducting research with human subjects as outlined in HRP-UT1000 IRB Policies and Procedures Manual which can be found by navigating to the IRB Library, General tab, within UTRMS-IRB. This includes maintenance of up-to-date human subjects research training (CITI) for all study personnel throughout the conduct of the study.

A description of the approved modification(s) can be found in the modification summary section of the UTRMS-IRB application.

As a reminder:

- Modifications to this study must be approved by the IRB in advance of implementing changes to the research.
- New information related to this study must be reported to the IRB in accordance with institutional reporting requirements.
- All study personnel must maintain up-to-date human subjects research training (CITI) throughout the conduct of the study.
- Close this study once all research activities are complete.

This study has been reviewed in accordance with UT Austin's Federalwide Assurance approved by the Department of Health and Human Services and the IRB has determined the study is in compliance with applicable federal regulations including 45 CFR 46, applicable Subparts (or equivalent policies and procedures), and other applicable federal regulations, Texas law, and other pertinent regulations and guidelines.

Any questions about issues unrelated to UT Austin IRB's review of this research should be referred to the PI's college, school, or unit.

If you have any questions, contact IRB staff by phone at 512-232-1543 or via email at irb@austin.utexas.edu

Sincerely,

Institutional Review Board
University of Texas at Austin

cc:
Christian Doabler (PI)

Canutillo Independent School District				
Projected PM-1 Intructional Assistant (IA) Work Schedule for 2025-2026				
*Note: The projected PM-1 dates below are dependent on CISD board approval & district hiring of IAs. The projected hours per week are dependent on IA availability, number of PM-1 groups, and the final PM-1 intervention schedule.				
# of Instructional Assistants	Weekly Schedule	# of Days per week	Weekly Hrs. & Pay	
8	Monday - Thurs. 8:00 - 3:30 based on Individual schedules	4 days / week	18 hrs. @\$23.50/hr	
Week of		# Hrs.	Estimated Pay	Projected Task per Week
10/27/25	10/31/25	12	\$282.00	Projected start Date 29th; Assessment Training
11/3/25	11/7/25	18	\$423.00	Pretest Administration
11/10/25	11/14/25	18	\$423.00	3 Day Week; Pretest Administration
11/17/25	11/21/25	18	\$423.00	Pretest Make-ups & Data Entry
11/24/25	11/28/25	0	\$0.00	No School
12/1/25	12/5/25	18	\$423.00	PM-1 Curriculum Training
12/8/25	12/12/25	18	\$423.00	PM-1 Curriculum Training; Start PM-1 Intervention
12/15/25	12/19/25	18	\$423.00	Teach PM-1 Intervention
12/22/25	12/26/25	0	\$0.00	No School
12/29/25	1/2/26	0	\$0.00	No School
1/5/26	1/9/26	14	\$329.00	3 Day Week; Teach PM-1 Intervention
1/12/26	1/16/26	18	\$423.00	Teach PM-1 Intervention
1/19/26	1/23/26	14	\$329.00	3 Day Week; Teach PM-1 Intervention
1/26/26	1/30/26	18	\$423.00	Teach PM-1 Intervention
2/2/26	2/6/26	18	\$423.00	Teach PM-1 Intervention
2/9/26	2/13/26	18	\$423.00	Teach PM-1 Intervention
2/16/26	2/20/26	14	\$329.00	3 Day Week; Teach PM-1 Intervention
2/23/26	2/27/26	18	\$423.00	Teach PM-1 Intervention
3/2/26	3/6/26	18	\$423.00	Teach PM-1 Intervention
3/9/26	3/13/26	0	\$0.00	No School
3/16/26	3/20/26	0	\$0.00	No School
3/23/26	3/27/26	18	\$423.00	Posttest Administration
3/30/26	4/3/26	18	\$423.00	Posttest Administration
4/6/26	4/10/26	12	\$282.00	To be determined (Post-test Make-ups / Data Entry)
4/13/26	4/17/26	12	\$282.00	To be determined (Post-test Make-ups / Data Entry)
Total for 1 IA		330	\$7,755.00	
Projected Maximum Total for 8 IAs			\$62,040.00	

RELATIONS WITH EDUCATIONAL ENTITIES



Canutillo Independent School District

REQUEST FOR APPROVAL TO CONDUCT RESEARCH
IN THE CANUTILLO INDEPENDENT SCHOOL DISTRICT

1. Name of Person Initiating Request: Christian T. Doabler
Address: University of Texas at Austin, 1912 Speedway, D4900, Austin, TX Zip 78712
Telephone Number: 541-844-9271 Fax Number: _____
2. Title of Research Project: Precision Mathematics: First-Grade Impact Study
3. Nature of the Project. (Attach to this form a brief outline of the purpose, method, and general plan of investigation and its benefits to the Canutillo Independent School District.)
4. Data Collection for the Project. (Attach to this form, not more than one page, a specific description of the procedures to be used in collecting data, beginning and ending dates, and how privacy rights will be protected. Include a Confidentiality Oath Form for each person who will access student records.)
5. Instrument. (Attach a copy of each test, interview schedule, or questionnaire to be used.)
6. Participants. (Attach a list of schools or departments from which information is to be collected, students to be involved, and teachers or other school employees to be involved. Describe how participants are to be selected.)
7. Reporting of Data. (Attach a statement, not more than one page, describing the data to be collected and reported and the method of collection.)
8. Institutional Approval. (This is required of all students and faculty members representing colleges and universities doing any research involving human subjects. Approval of projects from the University of Texas at El Paso will come from the Office for Research and Sponsored Projects.)

CISD School Approval (for student projects): _____

CISD Supervising Teacher

A handwritten signature in black ink, appearing to read "C.T.D.", is written over a horizontal line.

Signature of Person Initiating

CISD Principal

August 18, 2025

Date of Request

Submit completed proposals to: Canutillo Independent School District, Associate Superintendent, P.O. Box 100, Canutillo, TX 79835; (915) 877-7476 or fax (915) 877-7477.
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CISD Request for Research Approval Attachments

3. Nature of the Project

- **Purpose:** The aim of this project is to continue to test the impact of the Precision Mathematics (PM-1) intervention in Canutillo ISD on the outcomes of first-grade English learners and non-English learners who face mathematics difficulties.
- **Method:** Similar to the Cohorts 1-5 (2021-2025), this study will continue to employ a randomized controlled trial design. First-grade students identified as at-risk for mathematics difficulties will be randomly assigned to Precision Mathematics or a control condition. All students will continue to receive district-approved core mathematics instruction.
- **General plan:**
 - Researchers will follow district protocol for recruiting campuses and first-grade teachers.
 - Researchers will provide participating teachers consent forms with detailed information about the study to be signed and returned to project staff. A copy of the form will be provided to the participating teachers (i.e., hardcopies and/or electronic copies).
 - Parental consent forms will be provided by researchers and sent home by participating teachers to all students in their classroom. Participating teachers will collect the signed forms and return to project staff. All students with signed consent will be eligible for the research aspect of the study.
 - Researchers will read the student assent form to participating students.
 - Consented first-grade students will be administered a set of early numeracy measures for screening purposes.
 - First-grade teachers will nominate eight students at-risk of mathematics difficulties based on researcher identified inclusion criteria. Students who meet study inclusion criteria will be randomly assigned to one of two conditions: (a) PM-1 intervention or a (b) business-as-usual control condition.
 - Consented students nominated by teachers will be given additional pre-and posttest assessments.
 - District-employed instructional assistants (IAs) will act as the primary service providers of the PM-1 intervention. Students in the PM-1 group will receive the 32-lesson intervention in small groups (4:1 student-teacher ratio) for 30-minutes per session across 8 weeks. Instructional assistants will be provided two professional development workshops delivered by project staff. The first training will take place prior to the start of the intervention and the second training will take place during the intervention. Interventionists will receive at least two coaching visits by project staff during intervention implementation. Coaching visits will consist of direct observations of PM-1 intervention lesson delivery, followed by feedback on instructional quality and fidelity of intervention implementation. Fidelity of implementation will be observed two times during the intervention time period.
 - The research team will conduct a classroom observation during Tier 1 mathematics instruction with each participating teacher.
 - The research team will conduct up to three observations of BAU control students during the delegated PM-1 intervention time.
 - The research team will administer up to three text message surveys regarding the activities of BAU students during the PM-1 intervention time frame.
 - The research team will collect daily audio recordings of lesson implementation in each PM-1 intervention group. At the conclusion of each project year, we will use the recordings to evaluate the type, quantity, and quality of mathematics instruction delivered. Trained coders will analyze the audio recorded data using two validated measurement tools (see Appendix A, Table 4, page 6): (a) Classroom Observations of Student- Teacher Interactions-STEM measure (COSTI-STEM; Doabler et al., 2015; 2017; 2018; 2019) and (b) the Ratings of Classroom Management and Instructional Supports (RCMIS; Doabler & Nelson, 2009).

Notably, our team has applied variations of the COSTI-STEM and RCMIS across 13 federally funded research projects, involving five states with more than 20 school districts and over 15,000 students (e.g., Clarke, Doabler et al., 2012-2017; Doabler et al., 2015-2021).

- Students in the control condition (i.e., business-as-usual) will continue to be instructed by the classroom teacher using district-approved curricula and materials. Researchers will obtain information on the school practices for students in the control condition via teacher surveys and direct observations.
- After the end of the PM-1 program, the research team will hold one 30-minute interview with teachers regarding their impressions of the impact of the PM-1 program.
- **Benefits to CISD:**
 - At-risk, first-grade learners will receive mathematics instruction grounded in evidence-based teaching practices.
 - District-employed interventionists will receive professional development opportunities to build content and pedagogical knowledge for teaching mathematics to at-risk first grade learners.
 - Participating classroom teachers will receive financial incentives for their participation.
 - Interventionist time devoted to project activities, including intervention implementation, will be paid for by the project.

4 - Data Collection

- **Procedures for collecting data:** Trained project staff will administer all student outcome and teacher surveys included the project (paper protocols & online measures). Project staff will administer the measures prior to and after of the intervention implementation period and will coordinate with participating campuses and first-grade classroom teachers for scheduling purposes. Researchers request a space be provided at each campus to use for individually administered student measures.
- **Beginning and ending dates:** October 2025 – April 2026
- **Protection of privacy:** Data will be kept confidential. Following the consent process, teachers, interventionists, and students will receive a randomly generated identification number assigned at the time of recruitment. This number will be used as participant identifiers on all written materials. Received forms will be coded by replacing the participant's name with this identification number. This de-identifying process will occur within one week of data collection. This timeframe may fluctuate (i.e., shorter or slightly longer), depending on the amount of data collected. The key linking participant names and identification numbers will be stored on a password protected electronic server to which only project staff have access (see below for Confidentiality Oath Forms). This "key" will be stored in a separate storage location from the data. Specifically, it will be housed in a separate password-protected folder on the electronic server. There is some risk that confidentiality of project data will be compromised. Researchers will minimize this risk by (a) ensuring only key project personnel have access to the secure servers at UT-Austin, (b) de-identifying data in a timely manner, (c) employing electronic data storage methods that utilize encryption as well as password protection, and (c) ensuring that hard copies of documents are kept in secure, locked cabinets and offices.

5 - Instruments

A list of student outcome measures, surveys, and observation tools can be found in Appendix A. Sample items of the student outcome measures are also provided.

6 – Participants

Schools/Departments from which information is to be collected:

- Testing and Accountability Department - The following student-level data will be requested from the district: Student Name, Race/Ethnicity, Gender, DOB, Grade Level, School, Homeroom Teacher, Free and Reduced Lunch Status, LEP Status (e.g., ESL, LEP, ELL), Special Education Status, Special Education Category, retention data, TELPAS scores for

Cohort 5 (2025-26)

kindergarten and first grade years, and BOY, MOY, EOY district-administered math and reading assessment scores.

- Schools (~20 total classrooms)
 - Jose Damian Elementary
 - Garcia Elementary
 - Reyes Elementary
 - Deanna Davenport Elementary
 - Canutillo Elementary
 - Bill Childress Elementary
- **Students involved in research project:** In each participating classroom, eight first grade students who are considered at-risk for mathematics difficulties will be eligible to participate (~150 total first-grade students).
- **Teachers/School employees involved in research project:**
 - Precision Mathematics will be delivered by district-employed instructional assistants. The district will be reimbursed for intervention implementation at an hourly IA rate of \$23.50.
 - UT Austin will offer to pay stipends to classroom teachers for their participation in the study (i.e., distributing and collecting consents and completing surveys)
- **Description of participant selection:** Participating first-grade students will be administered a set of early numeracy measures for screening purposes. Participating teachers will nominate eight first-grade students who are considered at-risk for mathematics difficulties based on researcher identified inclusion criteria. These students will be randomized to one of the two study conditions and will complete additional pre- and post-test assessment battery (i.e., ~60-min at each time point). Students randomized to the PM-1 intervention condition will also receive 30 minutes of daily mathematics instruction for approximately 8 weeks.

7 – Reporting of Data

Description of data to be collected:

Student Outcome Measures: Our measurement model will assess mathematics achievement through five standardized mathematics outcome measures. These measures will be administered at pretest and posttest time periods by trained research staff.

- **Assessing Student Proficiency in Early Number Sense (ASPENS).** ASPENS is a set of individually administered fluency-based measures (1 or 2-min each) validated for screening and progress monitoring of students' number sense proficiency, including number identification, magnitude comparison, missing number, and arithmetic facts and base-10.
- **Early Measurement Curriculum-Based Measures (EM-CBM).** This is a set of four 1 or 2-min, individually administered fluency-based CBMs focuses on concepts of early measurement.
- **Assessing Concepts of Linear Measurement and Data Analysis (ALMA).** This individually administered measure comprises 22 short answer and multiple-choice items related to length, measurement, data analysis, and scientific practices.
- **STEM Vocabulary Assessment.** This individually administered vocabulary measure requires students to orally define and point to the picture that depicts five first-grade mathematics and science terms.
- **Pennies – Word Problems.** This small group administered measure comprises of 14-word problems read aloud by the assessor. The problems require addition or subtraction to solve, and all scenarios involve a context of pennies.

Student Level Data - The following student-level data will be requested from the district: Student Name, Race/Ethnicity, Gender, DOB, Grade Level, School Homeroom Teacher, Free and Reduced Lunch Status, LEP Status (e.g., ESL, LEP, ELL), Special Education Status, Special Education Category, retention data, TELPAS scores for kindergarten and first grade years, and BOY, MOY, EOY district math and reading scores.

Teacher Surveys - The proposed research will administer two surveys. The first survey will document demographic information from participating teachers and survey the mathematics classroom. Such items include reporting ethnicity, gender, teaching experience, education, and areas of specialization as well as the amount of time spent on mathematical content, the types of teaching practices used. The second survey pertains to the nominated PM-1 students and asks questions related to (a) district-provided mathematics interventions, (b) English proficiency skills, and (c) self-regulation and behavioral characteristics.

Fidelity of Implementation - Our classroom observation system will measure three aspects of mathematics instruction: (a) implementation fidelity of the PM-1 program, (b) quality of instruction, and (c) mathematics discourse opportunities for ELs. Trained project staff will administer the observation system in the PM-1 intervention groups twice during the intervention time period.

☐ **Description of data to be reported:**

Researchers will present findings to school leaders at the conclusion of the project. For example, the research team can provide a brief written report/summary of findings, or researchers can present the study's findings in person, via a brief PowerPoint presentation. The research team will write up study findings for submission to peer-reviewed journals. Researchers also hope to present findings at conferences. No information will be published that would allow for readers to identify participating students, schools, or districts.

- ☐ **Method of data collection:** Student mathematics achievement will be assessed through five standardized mathematics outcome measures. These measures will be administered at pretest and posttest time periods by trained project staff. All measures will be computer-administered or delivered via paper-pencil, with administration directions verbally delivered by project staff. Teacher surveys will be collected via online data collection methods.

Appendix A: Student Outcome Measures, Surveys, Observation Measures, and Sample Items

Table 1. Student Outcome Measures (Administered by MCPER Research Team)

Construct	Measure	Pretest	Posttest
Number Sense	Assessing Student Proficiency in Early Number Sense (ASPENS)	×	×
Length Measurement	Early Measurement Curriculum-Based Measures (EM-CBM)	×	×
Measurement, Data Analysis, Scientific Practices	Assessing Concepts of Linear Measurement and Data Analysis (ALMA)	×	×
Language Development	STEM Vocabulary Assessment	×	×
One-step Word Problems	Pennies	×	×

**Note: 7-10 min for students receiving the ASPENS only; Total administration for all measures is ~60 minutes (pre and post-test time periods)*

Table 2. Teacher Surveys

Construct	Measure	Participant(s)
Teaching Background and Classroom Context	Classroom Characteristics Survey	Teacher (administer near end of study)
Nominated Student Learning Context	Student Characteristics Survey	Teacher (administer in middle of study)

**Note: Total administration for teacher surveys is ~40 minutes.*

Table 3. *Observation Tools* (Completed by MCPER Research Team)

Construct	Measure	Focus	Administration
Implementation Fidelity	Precision Mathematics Fidelity of Implementation (PM-FOI)	Interventionists	Twice during intervention time period

Table 4. *Audio Recording Measures* (MCPER Research Team will code all audio recorded PM-1 lessons)

Construct	Measure	Focus
Instruction Quality	Rating of Classroom Management and Instructional Support (RCMIS)	Interventionist
Mathematics Discourse	Classroom Observations of Student-Teacher Interactions – Mathematics (COSTI-M)	Interventionist

Sample Student Assessments

ASPENS: Magnitude Comparison

Example Items—Grade 1

38	16	43	57	4	12	37	48
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ASPENS: Missing Number

Example Items—Grade 1

28	29	_____	76	_____	78
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ASPENS: Math Facts

Example Items—Grade 1

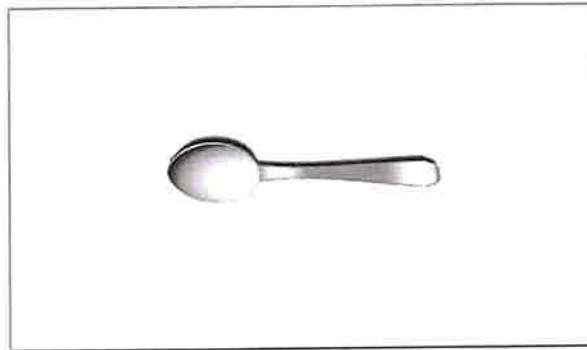
$\begin{array}{r} 9 \\ + 8 \\ \hline \end{array}$	$\begin{array}{r} 11 \\ - 1 \\ \hline \end{array}$	$\begin{array}{r} 13 \\ - 7 \\ \hline \end{array}$	$\begin{array}{r} 5 \\ + 8 \\ \hline \end{array}$
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EM-CBM

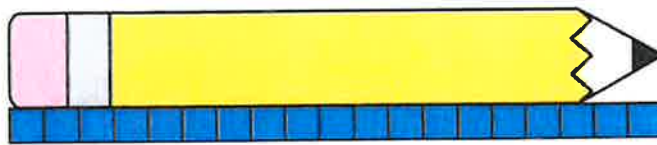
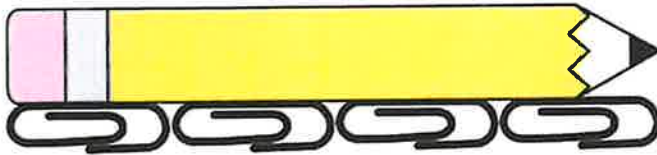
“Look at this box.” (point to Item 1) **“For each box, I want you to use the ruler to measure the object and tell me its length in inches. Start here and go down the page.”**
 (demonstrate by pointing) **“Put your finger on the first box. Ready?”** (make sure student has ruler in hand) **“Begin.”** (time for two minutes) **“Stop.”**

s

9



ALMA



<p>6. Display PICTURE A. “Look at this picture. I measured the pencil with paperclips.” (point) When I measured the same pencil with centimeter cubes (point) I used more cubes than paperclips. Why?” Score the response: <i>1 point for discussion about a centimeter cube being shorter than a paperclip or a paperclip being longer than a centimeter cube</i> <i>0 points for incorrect response, no response, or incorrect reasoning</i></p>	<p>1 0</p>
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STEM Vocab

(1a) The first word is length. What does length mean?

- Wait 5 sec.; Recalibrate - "Tell me what you know about the word length?"

(1b) Display the Receptive Vocabulary Image 1b.

Point to the picture that represents the word length.

- Wait 5 sec.



Pennies

1.

Ava had 1 penny. Then Santi gave her 2 more pennies. How many pennies does Ava have now?

Sample Teacher Surveys

PM-1 Teaching Background Survey

7. In this current school year, how many days per week do you teach mathematics?
Number of days: _____
8. On average, how long is a mathematics lesson? _____ minutes
 - 8a. Is mathematics taught mainly as a separate subject (i.e., not integrated within other subjects)?
 - a. Yes
 - b. No
9. Most often, how do you assess students understanding of mathematics concepts and practices?
 - a. Observe students as they work
 - b. Ask students to verbally answer questions during class
 - c. Short, regular tests (written and/or technology-based)
 - d. Longer tests (e.g., unit tests or exams)
 - e. Student projects
10. What type of materials do you use to teach mathematics?
 - a. Teacher-developed
 - b. Commercially available
 - c. Blend of both teacher-developed and commercially available

INTERLOCAL COOPERATION CONTRACT

This **Interlocal Cooperation Contract (Contract)** is entered into effective **October 27, 2025 (Effective Date)**, by and between Contracting Parties pursuant to authority granted in and in compliance with Chapter 791, Government Code.

CONTRACTING PARTIES:

Receiving Party: The University of Texas at Austin, of the State of Texas
The Meadows Center for Preventing Educational Risk
1912 Speedway D4900
College of Education SZB 5.110
Austin, Texas 78712
Phone: (512) 2325-2320

Performing Party: Canutillo Independent School District, of the State of Texas
Address: 7965 Artcraft Rd,
El Paso, TX 79932
Phone: (915) 877-7400

PURPOSE:

The purpose of this Contract is to obtain the services of Performing Party to conduct intervention services for a research project. This Contract will increase the efficiency and effectiveness of Contracting Parties.

STATEMENT OF SERVICES TO BE PERFORMED:

Performing Party will perform the following services (**services**):

Intervention services

WARRANTIES:

Receiving Party warrants (1) the services are necessary and authorized for activities properly within its statutory functions and programs; (2) it has authority to contract for the services under authority granted in Section 65.31, *Texas Education Code*, and Chapter 791, Government Code; (3) it has all necessary power and has received all necessary approvals to execute and deliver this Contract, and (4) the representative signing this Contract on Receiving Party's behalf is authorized by its governing body to do so.

Performing Party warrants (1) it has authority to perform the services under authority granted in Section _____, *Texas Code* and Chapter 791, *Texas Government Code*; (2) it has all necessary power and has received all necessary approvals to execute and deliver this Contract, and (3) the representative signing this Contract on Performing Party's behalf is authorized by its governing body to do so.

CONTRACT AMOUNT:

The total amount of this Contract will not exceed **\$62,040.00**.

PAYMENT:

Receiving Party will remit payments to Performing Party for services satisfactorily performed in accordance with Chapter 2251, Government Code (Texas Prompt Payment Act).

Payments made under this Contract (1) are based on cost recovery (2) will fairly compensate Performing Party for the services performed, and (3) will be made from current revenues available to Receiving Party.

Section 51.012, Education Code, authorizes Receiving Party to make payments through electronic funds transfer methods. Performing Party agrees to accept payments from Receiving Party through those methods, including the automated clearing house system (ACH). Performing Party agrees to provide its banking information to Receiving Party in writing on Performing Party letterhead signed by an authorized representative of Performing Party. Prior to the first payment, Receiving Party will

confirm Performing Party's banking information. Changes to Performing Party's bank information must be communicated to Receiving Party in writing at least thirty (30) days before the effective date of the change and must include an IRS Form W-9 signed by an authorized representative of Performing Party.

TERM:

The term of this Contract begins on the Effective Date and expires on **April 17th, 2026**.

NOTICES:

Except as otherwise provided by this Section, notices, consents, approvals, demands, requests or other communications provided or permitted under this Contract, will be in writing and will be sent via certified mail, hand delivery, overnight courier, facsimile transmission (to the extent a facsimile number is set forth below), or email (to the extent an email address is set forth below) as provided below, and notice will be deemed given (i) if delivered by certified mail, when deposited, postage prepaid, in the United States mail, or (ii) if delivered by hand, overnight courier, facsimile (to the extent a facsimile number is set forth below) or email (to the extent an email address is set forth below), when received:

If to Receiving Party: The University of Texas at Austin
The Meadows Center
Maria Longhi
Email: mlonghi@austin.utexas.edu

If to Performing Party: Canutillo Independent School District
Ruby Palacios
Email: rpalacios@canutillo-isd.org

or other person or address as may be given in writing by either party to the other in accordance with this Section.

TERMINATION:

In the event of material failure by a Contracting Party to perform its duties and obligations in accordance this Contract, the other party may terminate this Contract upon thirty (30) days' advance written notice of termination setting forth the nature of the material failure; provided that, the material failure is through no fault of the terminating party. The termination will not be effective if the material failure is fully cured prior to the end of the 30-day period.

OTHER PROVISIONS:

Access by Individuals with Disabilities. Performing Party represents and warrants (**EIR Accessibility Warranty**) the electronic and information resources and all associated information, documentation, and support Performing Party provides to Receiving Party under this Contract (**EIRs**) comply with applicable requirements set forth in 1 TAC Chapter 213 and 1 TAC Section 206.70 (ref. Subchapter M, Chapter 2054, Texas Government Code). To the extent Performing Party becomes aware the EIRs, or any portion thereof, do not comply with the EIR Accessibility Warranty, then Performing Party represents and warrants it will, at no cost to Receiving Party, either (1) perform all necessary remediation to make the EIRs satisfy the EIR Accessibility Warranty or (2) replace the EIRs with new EIRs that satisfy the EIR Accessibility Warranty. If Performing Party is unable to do so, Receiving Party may terminate this Contract and, within thirty (30) days after termination, Performing Party will refund to Receiving Party all amounts Receiving Party paid under this Contract.

Performing Party will provide all assistance and cooperation necessary for the performance of accessibility testing conducted by Receiving Party or Receiving Party's third party testing resources as required by 1 TAC Section 213.38(g).

Payment of Debt or Delinquency to the State. Pursuant to Sections 2107.008 and 2252.903, Government Code, any payments owing to Performing Party under this Contract may be applied directly toward any debt or delinquency Performing Party owes the State of Texas or any agency of the State of Texas, regardless of when it arises, until paid in full.

Venue; Governing Law. Travis County Texas, will be the proper place of venue for suit on or in respect of this Agreement. This Agreement, all of its terms and conditions, all rights and obligations of the parties, and all claims arising out of or relating to this Agreement, will be construed, interpreted and applied in accordance with, governed by and enforced under, the laws of the State of Texas.

Entire Agreement; Modifications. This Contract supersedes all prior agreements, written or oral, between Performing Party and Receiving Party and will constitute the entire agreement and understanding between the parties with respect to its subject matter. This Contract and each of its provisions will be binding on the parties, and may not be waived, modified, amended or altered, except by a writing signed by Receiving Party and Performing Party.

Loss of Funding. Performance by a Contracting Party of its duties and obligations under this Contract may be dependent upon the appropriation and allotment of funds by the Texas State Legislature (**Legislature**) and/or allocation of funds by that Contracting Party's governing board. If Legislature fails to appropriate or allot necessary funds, or a Contracting Party's governing board fails to allocate necessary funds, then Contracting Party that loses funding may terminate this Contract without further duty or obligation. Contracting Parties agree acknowledge that appropriation, allotment, and allocation of funds are beyond the Contracting Parties' control.

State Auditor's Office. Contracting Parties understand acceptance of funds under this Contract constitutes acceptance of authority of the Texas State Auditor's Office or any successor agency (**Auditor**), to conduct an audit or investigation in connection with those funds (ref. [Sections 51.9335\(c\)](#), [73.115\(c\)](#) and [74.008\(c\)](#), *Education Code*). Contracting Parties agree to cooperate with Auditor in the conduct of the audit or investigation, including providing all records requested. Contracting Parties will include this provision in all contracts with permitted subcontractors.

Assignment. This Contract is not transferable or assignable except upon written approval by Contracting Parties.

Severability. If any one or more of the provisions of this Contract will for any reason be held to be invalid, illegal, or unenforceable in any respect, that invalidity, illegality or unenforceability will not affect any other provision, and this Contract will be construed as if the invalid, illegal, or unenforceable provisions had never been included.

Public Records. It will be the independent responsibility of Receiving Party and Performing Party to comply with [Chapter 552, Government Code \(Public Information Act\)](#), as it applies to the Contracting Parties' respective information. Receiving Party is not authorized to receive public information requests or take any action under the Public Information Act on behalf of Performing Party. Likewise, Performing Party is not authorized to receive public information requests or take any other action under the Public Information Act on behalf of Receiving Party.

Executed effective on the Effective Date by the following duly authorized representatives of Contracting Parties:

RECEIVING PARTY:

Canutillo ISD

By: _____

Name: _____

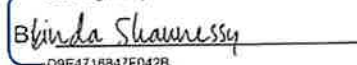
Title: _____

Date: _____

PERFORMING PARTY:

The University of Texas at Austin

DocuSigned by:

_____

D9E4716947F042B

Name: Linda Shaunessy

Title: Business Contracts Administrator

Date: 2025-08-15 | 10:46:43 PDT

Canutillo - PM-1

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