

PROJECT PRIME
Mathematics Science Partnership Grant
2013 Pilot

DESCRIPTION OF PILOT EVALUATION PROJECT
for PARTICIPATING TEACHERS

The US Office of Education and the Michigan Department of Education have provided Mathematics Science Partnership grant funds to the Wayne Regional Educational Service Agency, the Michigan Mathematics Science Center Network, and their school partners to provide professional development opportunities to improve teaching and learning in mathematics. The project is expected to conduct evaluation/research associated with the project, including participation in a statewide cross-site evaluation.

The purpose of this evaluation pilot is to examine the feasibility of using video clips to measure implementation of project activities in participating teachers' classrooms. This document explains the purpose and procedures used and the risks and benefits of participating in this study.

What are we trying to find out in this study? The Center for Evaluation Research is conducting an evaluation to determine the impact of PRIME on classroom practice. Participating teachers will submit 5-7 minute video clips of their classroom instruction and provide short reflections regarding their impressions of the clips using mathematical practices 1, 3, and 8.

Who can participate in this study? Approximately 60 teachers have been invited to participate in this study.

What will you be asked to do if you choose to participate in this study? The program funders, the Michigan Department of Education and the US Office of Education, require that information be collected to evaluate the effectiveness of the program. We ask for your permission to use the information we collect from you for additional research studies. The program includes the following evaluation measures:

- 1) All participating teachers statewide will be asked to take a mathematics content for teaching assessment twice. The test is given at the beginning of the program and again at the last session. The two tests will be used to evaluate the growth in your level of understanding of mathematical content for teaching
- 2) All participating teachers statewide will be asked to complete two surveys about your professional attitudes and perceptions. One of the will be given at the first session, and the other at the last session. Each survey should take about 10 minutes to complete.
- 3) All participating teachers statewide will be asked to complete two surveys regarding their calculator skills. These will be given at the first and last sessions and take approximately 10 minutes to complete.

In addition, *pilot teachers* will participate in the following:

- 4) *Obtain student permission to release the videos.* If your school does not do this for all students, use the RESA release form (attached) and send the completed forms to: Frederica Frost, Center for Evaluation Research, 207 Woodlawn, Royal Oak, MI 48073.
- 5) Collect *five to seven minute video clips* of three mathematics lessons in your classroom, one each in January 2013, March 2013, and May 2013. Videos will demonstrate student performance on mathematical practices 1, 3, or 8: 1) Make sense of problems and persevere in solving them, 3) Construct viable arguments and critique the reasoning of others, and 8) Look for and express regularity in repeated reasoning.
- 6) *Complete the Reporting Form* regarding one of the practices 1, 3, or 8. Use the attached Rubric to guide you in preparing the form. Explain what you think went well

and what you would like to see improve. *For the third and final video*, compare how students performed on the first clip to their behavior on the third. Explain changes and why you think they occurred.

7) *Submit the video, Reporting Form, and voice recording* to Frederica Frost at frostf@resa.net or mail it to:
Center for Evaluation Research, 207 Woodlawn, Royal Oak, MI 48073.

8) *Review the clip* to make sure that student voices can be heard and understood. You may want to download a voice recorder app to your iPhone or Android.

Android: \$3.99

https://play.google.com/store/apps/details?id=yuku.mp3recorder.full&feature=search_result&rdid=yuku.mp3recorder.full&rdot=1

iPhone: free (Dragon recorder)

<https://itunes.apple.com/us/app/dragon-recorder/id464776856?mt=8>

If you order the Android app, include the receipt on your final invoice and we will reimburse you.

9) *Equipment* provided includes a video camera, memory disk, and tripod for each participating school. If your school does not have audio enhancement, you will also need to download a voice recorder app for your cell phone (see above). Equipment will be shipped upon receipt of your signed Memos of Understanding.

10) *Due dates* for the video clips, Reporting Forms, and voice recordings are:

Video clip 1: January 31, 2013

Video clip 2: March 31, 2013

Video clip 3: May 31, 2013

11) *Getting paid:*

In order to receive the \$340 stipend, you will need to meet the deadlines listed above. Send an invoice for \$340 along with your third video clip, Reporting Form, and voice recording. If you ordered the Android voice recorder, include the receipt and we will reimburse you.