

**Open Source Illustrative Mathematics (IM)
Curriculum Implementation Program**

July 16, 2019 Online Meeting Q & A

1. Can you email the PowerPoint to us?

The online meeting PowerPoint presentation was emailed to those who attended the July 16 session. If you would like to request that it be emailed to you, please contact MC² at mc2@nmsu.edu with your request.

IMPORTANT: If you did not attend the online session, please view the recording at <https://mc2.nmsu.edu/open-source/> before requesting a copy of the PowerPoint slides.

2. Can you provide the links to access the curriculum?

Selected schools may choose one of the following platforms with which to implement IM:

- **Kendall Hunt: Free Online Access to Curriculum for grades 6, 7, 8, Alg 1, Geo & Alg 2**
<https://im.kendallhunt.com/>
- **Learn Zillion: Interactive resource for grades 6, 7, 8, Alg 1, Geo & Alg 2 (minimal per student fee)**
<https://learnzillion.com/p/illustrative-mathematics/>
- **Open-Up Resources: Free online access to Curriculum for grades 6-8**
<https://openupresources.org/math-curriculum/>

3. What about materials in Spanish for Dual Language Schools?

Open-Up Resources provides support for English learners in grades 6-8. (Refer to link in question 2 above)

4. Would schools be expected to use the IM curriculum exclusively or can they utilize other resources, as well?

IM would be the main curriculum that they would be fully implementing. There are eight different units within the IM curriculum so we would work to get to as many of those as possible because then we know that they are really having access to all of the standards for their grade band. If there's something that they wanted to add in as a resource, that would depend on the amount of time set aside for mathematics. We recommend you look at the timing since there may be a lot of time to add other resources in. We don't want schools to "pick & choose" lessons that they like out of IM. We want schools to really think about implementation.

5. Can Geometry and Algebra II use other programs while Algebra I uses IM?

Yes. The intent is that we will support high schools in their Algebra I implementation and Geometry and Algebra II will be up to the school. It will be their choice. IM is available for Geometry and Algebra II, as well, if schools want to use those resources; however, MC² professional development will focus only on Algebra I.

6. Just to clarify, does IM have curriculum for Geometry and Alg 2?

Yes, that's correct. The high school curriculum from Kendall Hunt for Algebra I, Geometry, and Algebra II is due to come out around July 17. The Learn Zillion platform currently has the first three units of those courses and will be rolling them out in the next few weeks. Open Up Resources does not have the high school curriculum available, only middle school.

7. Is this initiative aligned to the IMP approach to math?

It's definitely aligned to IMP, the high school interactive program, in that it promotes discourse and really rich problem-solving. What different is that IMP is an integrated curriculum that includes Algebra and

Geometry and the way IM is designed is more the traditional sequence – Algebra I, Geometry, Algebra II. So yes, in terms of teaching philosophy learning engagement and discourse but different in terms of the lessons and the integration of content.

8. Will middle schools offering Algebra 1 be supported?

We would like for middle schools to implement IM across all grades and will support Algebra 1, as well. We want a good portion of your teachers to commit to attending the associated MC² training. It doesn't have to be 100% but at least 80%.

9. What about charters that are a "department of one"?

Departments of one are definitely eligible to apply. It is easy for them to get collaboration and commitment.

10. I only have one grade level interested in implementing this pilot. Would this be a viable option?

We would encourage you to apply. This is not really the intent of the pilot. Be sure to make a good case as to why your school only implementing one grade level should be considered and we will consider it.

11. If you only have one class per grade level do you need to implement all grades at the same time or can you build (i.e., 6th & 7th, then add 8th next year)?

Our preference would be implementing multiple grades at the same time. We know that some schools have jumped into implementing 7th and 8th grade even though they didn't have IM previously and overall it's gone well so our preference would be schools that want to implement fully. Now we know that we have some schools that have already committed. We have one school district that is piloting another interactive program in 8th grade so they're really looking at 6th and 7th grade. They'll just explain in the application that full implementation for them would be 6th and 7th grade.

12. Can you implement only 9th grade up?

We're imagining that some schools begin in 9th grade so if a high school wants to submit an application that's not dependent on the middle school having done IM. Yes, it's possible to go 9th grade up.

13. Any information on the roll out for the elementary curriculum?

It's our understanding that it won't be available for a couple of years. It's still in the process of being written.

14. What schools from the southwest area are using this curriculum?

Several schools from Las Cruces have piloted IM this year, along with some in Gadsden and T or C.

15. Do you recommend Geometry first then Algebra 2 or vice versa?

IM is written for Geometry and then Algebra 2. There are extensive alignment documents available so if you make the choice to offer Algebra 2 and then Geometry, you'll have good information with which to make informed decisions. For example:

- **Kendall Hunt Scope & Sequence**
Alg 1/Geo/Alg 2 Pacing Guide
https://im.kendallhunt.com/HS/teachers/1/scope_and_sequence.html
- **Kendall Hunt Lessons & Standards Alignment**
Standards by Lessons & scroll down for Lessons by Standards
https://im.kendallhunt.com/HS/teachers/1/lessons_and_standards.html

16. What assessments are built into the program and are they aligned to TAMELA?

TAMELA is the transitional math and ELA assessment. It's the replacement for the PARCC assessment administered this past school year. An RFP has gone out from the PED Assessment Bureau to vendors for a new math and ELA assessment. IM curriculum and the new math/ELA assessment will both be aligned to the Common Core State Standards (CCSS).

There are assessments built into the IM curriculum. For example:

- **Kendall Hunt Learning Goals & Targets/How to Assess Progress**
https://im.kendallhunt.com/HS/teachers/learning_goals_and_targets.html
- **Kendall Hunt Diagnostic Assessments**
https://im.kendallhunt.com/HS/teachers/diagnostic_assessments.html
- **Kendall Hunt Cool-Downs (Exit Slips/Tickets)**
https://im.kendallhunt.com/HS/teachers/cool_downs.html
- **Kendall Hunt Summative Assessments**
https://im.kendallhunt.com/HS/teachers/summative_assessments.html

17. Approximately how much additional to the \$500 for instructional materials might there be?

If you decide to purchase student materials, the PED can provide \$500 per teacher and the remainder would be incumbent on the school or district. So if you have four teachers participating in the pilot program, you would have \$2,000. The total investment should not be much more than this. Please note that the printed materials are only to be purchased, as needed. Teachers have successfully implemented the IM curriculum with very little pre-printed materials.

Feedback from the field

- A quote from Kendall Hunt for Algebra I was \$22.99 per student and \$67.99 for teacher material...that's for the print editions.
- A 6th grade implementation required some expensive beakers and other items; however, \$500 is more than what was necessary to cover these expenses.

18. Can the \$500 for materials be used to purchase student print materials/copies?

Yes, if a school chooses to utilize \$500 to purchase student materials that would be the part PED can cover. If there are additional costs above the \$500, that would be incumbent upon the school or district.

19. Would cost to schools for training be per diem?

There is no cost to the school for the professional development.

- Lodging and mileage reimbursement will be provided for teachers participating in the pilot program and attending the six professional learning days if they are traveling 60+ miles to the training venue.
- Hotel rooms will be set up ahead of time so that participants only need to check in. This is not a reimbursement cost.
- Participants will also receive a stipend for each day they participate in the professional learning and implementing the curriculum (up to \$1,000 per year).

20. Do you know approximately what the cost is for Geometry?

You may request a quote from the two platforms currently providing a math curriculum for Geometry: Kendall Hunt & Learn Zillion. (Refer to links in question 2)