

TEACHER LEADERS

ENGAGE. EMPOWER. INSPIRE.

Guide to Implementing Eureka Math

Teacher Leader Collaboration Event
September, 2016

Today's Goals

Today we will answer the questions:

1. How do I recognize when a student needs additional support?
2. What are the primary components of an effective math lesson?
3. What resources are available from the LDOE to support implementing Eureka Math?

By the end of today's session, you will feel better equipped to meet the needs of all of your students through implementing Eureka Math as your primary instructional resource.

Agenda

- Introduction (2 min)
- Scope and Sequence (20 min)
- Reasonable Expectations (20 min)
- Alignment at the Lesson Level (20 min)
- Resources (5 min)
- Closing (5 min)

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Scope and Sequence

Please respond to the following questions on chart paper:

1. What were the three most difficult mathematical topics to teach last year?
2. What made them so challenging?

Scope and Sequence

Last year...

- How many of you finished your course?
- How many of you followed the sequence of modules and topics as written?
- How many of you spent more than three days on any one lesson?

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Reasonable Expectations

Go back to your chart paper and, for each of the three topics you listed, answer the following questions:

1. When are students first exposed to this topic?
2. When should a student's learning on this topic culminate?

Reasonable Expectations

Compare and contrast Lesson 18 (Grade 4) with Lesson 13 (Grade 6).

4.NBT.B.6 Find whole-number quotients and remainders with up to four-digit dividends and one-digit divisors, using strategies based on place value, the properties of operations, and/or the relationship between multiplication and division. Illustrate and explain the calculation by using equations, rectangular arrays, and/or area models.

6.NS.B.2 Fluently divide multi-digit numbers using the standard algorithm.

What are the advantages and disadvantages to using the Grade 4 Lesson as is?

Reasonable Expectations

So, we have to have two sets of expectations:

1. Content

- understanding what is expected of our students at each grade level according to the standards
- understanding what is expected of our students at each grade level according the curriculum

2. Strategies

- knowing when the curriculum introduces and uses particular strategies and representations
- knowing which strategies are required by the standards at each grade level

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Alignment at the Lesson Level

What are the two main components of an effective lesson?

1. Development
2. Demonstration

What parts of a Eureka Lesson fall in to each category?

Development – provides an opportunity for students to develop key understandings and skills	Demonstration – provides an opportunity for students to independently practice
Application Problem	Exit Tickets
Concept Development	Homework
Problem Set (K-5)	Problem Set (6-HS)
Classwork	
Discussion	
Examples and Exercises	
Student Debrief/Closing	

Alignment at the Lesson Level

Why is it important to balance the development and demonstration phases of a Lesson?

Alignment at the Lesson Level

Using the Module provided at your table:

1. Determine whether or not each lesson aligns with a standard from your grade/course.
2. Determine if there are any assumptions Eureka makes in that lesson for which a teacher should be aware.

Take notes as you work and be ready to share out about your grade/course.

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Resources

<http://www.louisianabelieves.com/resources/library/k-12-math-year-long-planning>

Releasing soon:

1. Louisiana Guide to Implementing Eureka
2. Guide to Rigor (released last week!)
3. Focus by Grade Level

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Closing Discussion

Discuss the following questions with a colleague:

1. How should I respond when I see a lesson marked as “optional?”
2. What will I do differently in my classroom as a result of this session?
3. How will I help other teachers at my school know where to find and how to use the Louisiana Guide to Implementing Eureka?

Edmodo Math Groups

Network with other math teachers, share resources, and discuss successful strategies using Edmodo.

1. Visit: <http://www.edmodo.com>
2. Create an account
3. Use code: LKEAQ4