

~~MG~~ ~~id~~

~~W~~

~~Q~~

~~ND AN~~ ~~SCDN~~ - ~~MEMO~~ ~~SEAM~~
~~MR~~ 28, 2018

NEW YORK STATE EDUCATION DEPARTMENT

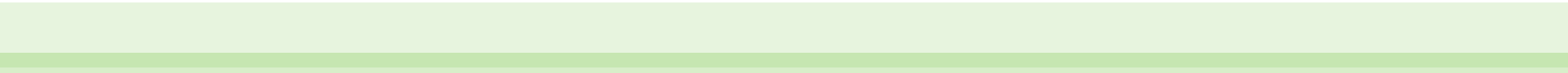
New York State Next Generation..

Mathematics Learning Standards

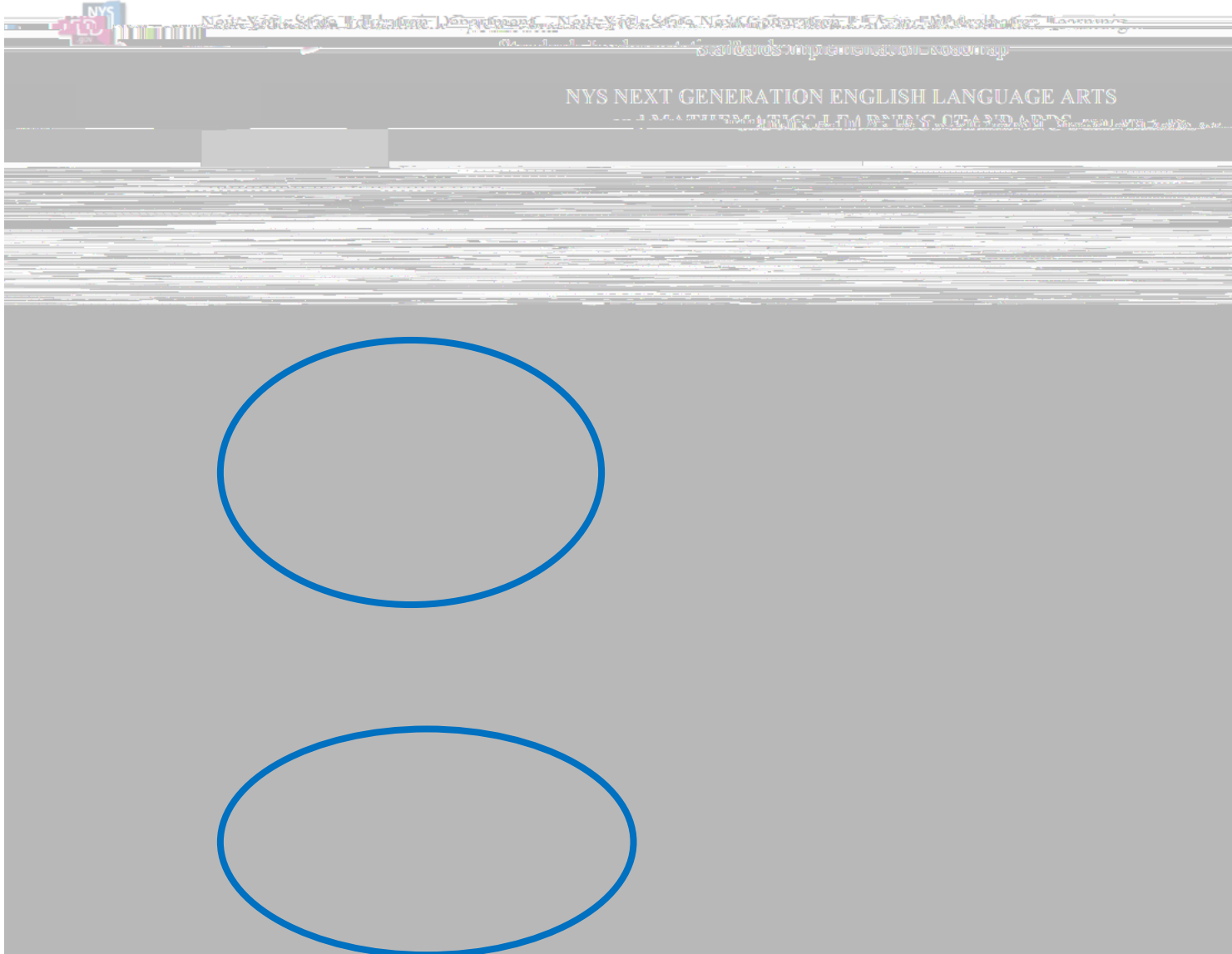
2017

www.nysed.gov/next-generation-learning-standards

<https://www.engageny.org/next-generation-learning-standards>

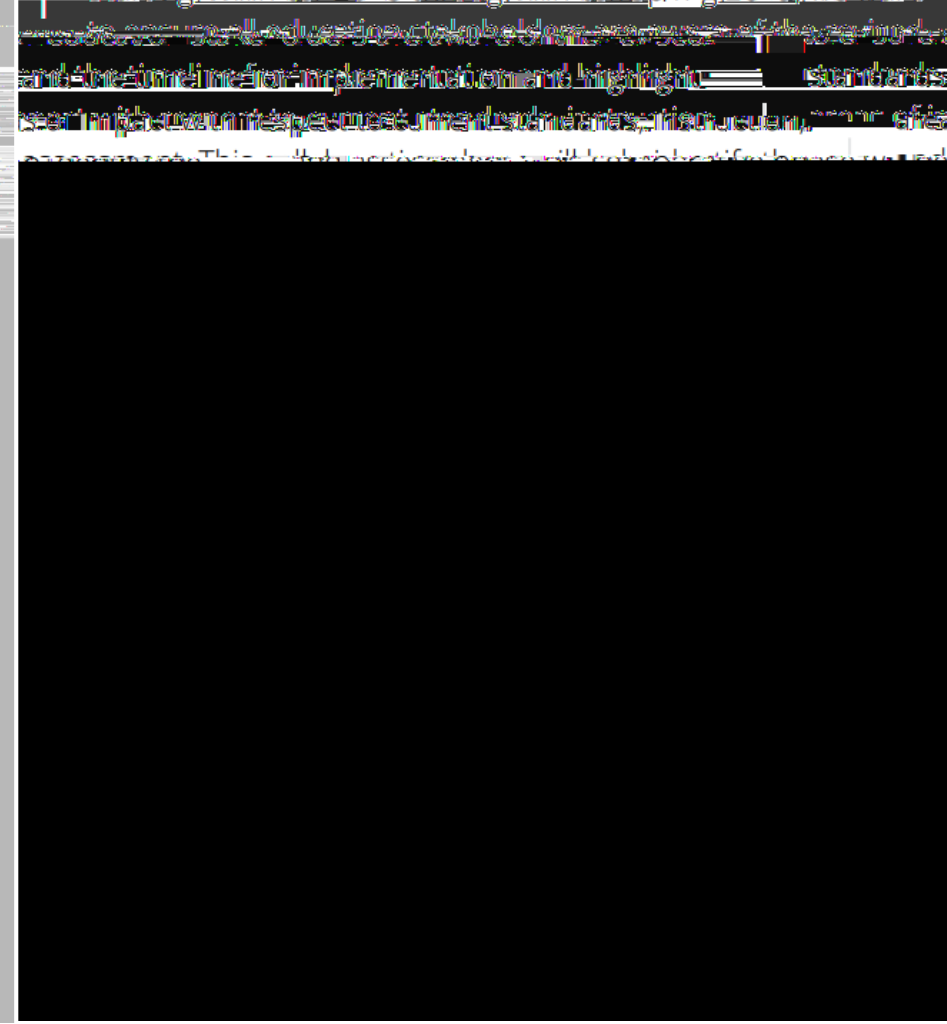






Phase I: Raise Awareness

Starting in Winter 2018 through Winter/Spring 2019, we want...



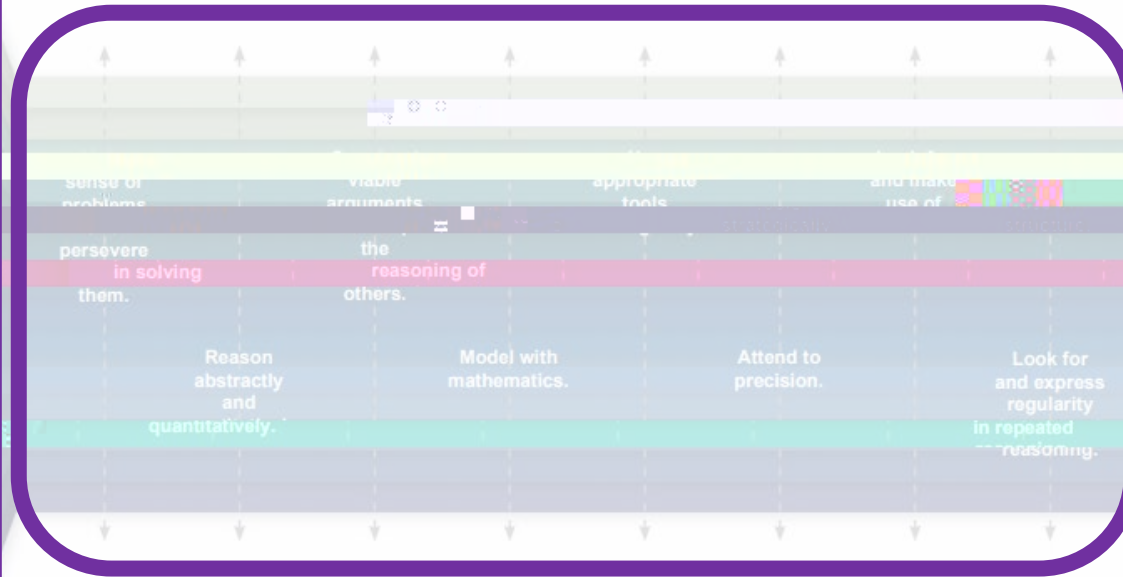




New York State Next Generation Mathematics Learning Standards

2017

- Counting and Cardinality
- Operations and Algebraic Thinking
- Number and Operations in Base Ten
- Number and Operations: Fractions
- Ratios and Proportional Relationships
- The Number System
- Expressions and Equations
- Functions
- Measurement and Data
- Geometry
- Statistics and Probability
- Number and Quantity
- Algebra
- Modeling





Introduction

The Opening Paragraph...

In 2015, the National
 Curriculum Framework
 for School Education
 was approved by the
 Cabinet. The National
 Curriculum Framework
 for School Education
 is a landmark document
 that sets the direction
 for the school education
 system in India.

0 - 6

These revised standards reflect the collaborative efforts and expertise of all constituents involved.

2015 Legislative Requirement: Standards re -evaluated with stakeholder input

ND by AM

stakeholders 10,500 p

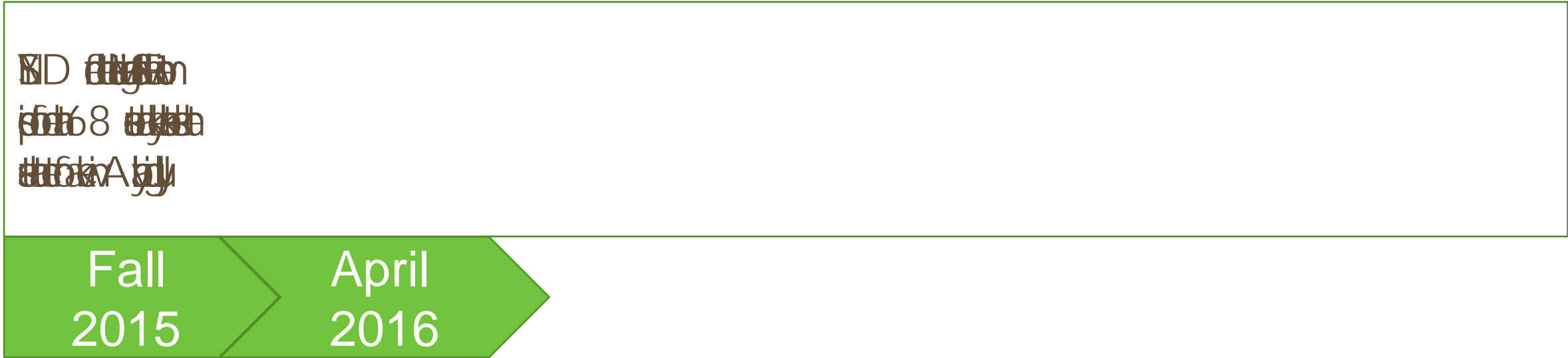
750,000 p

teachers, parents

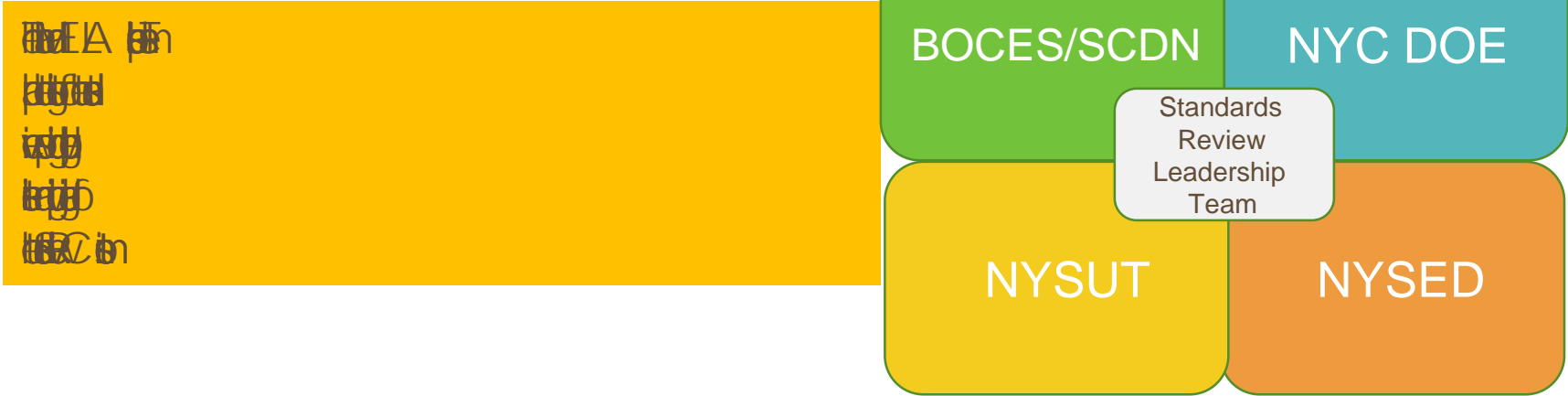
feedback

Fall
2015

2015 Legislative Requirement: Standards re -evaluated with stakeholder input



Standards Review Committee



Grade Band Committees	
Facilitator : C	Facilitator : C
Teachers: P -12, EN	Teachers: P -12, EN
Administrators : B	Administrators : B
College Professors : N	College Professors : N
Parents: P	Parents: P

2015 Legislative Requirement: Standards re -evaluated with stakeholder input

ND Standards
with 100 in

Fall
2015

April
2016

Sept.
2016

2015 Legislative Requirement: Standards re -evaluated with stakeholder input



Fall
2015

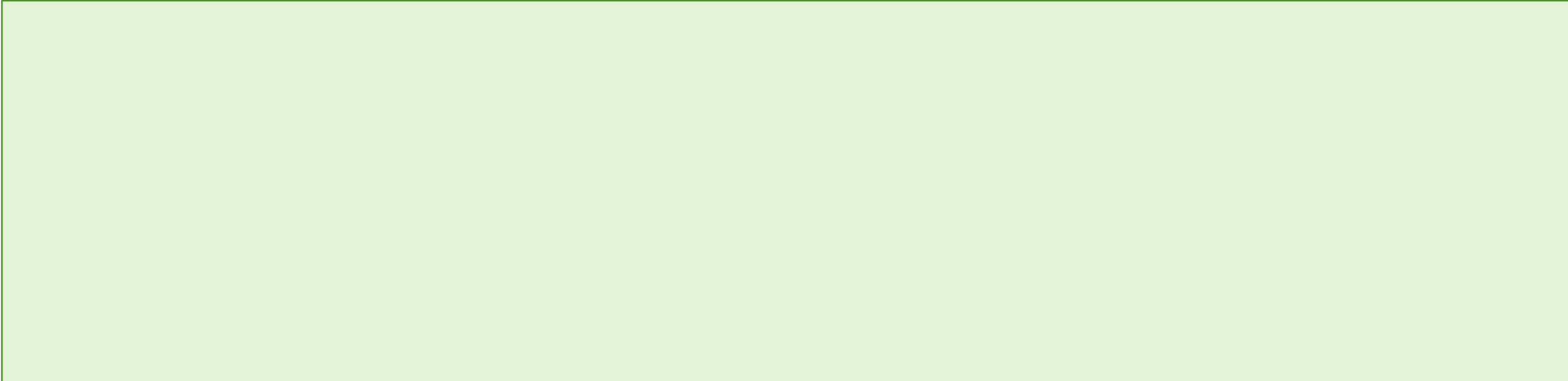
April

2015 Legislative Requirement: Standards re -evaluated with stakeholder input

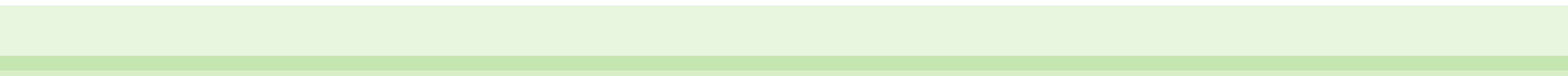
~~MGIB~~
~~6 9~~



Introduction



Standards



Introduction

Apply to

student access

to

knowledge at the

Instruction

Curriculum

Introduction

Assessment should be rigorous ; to
 and application of conceptual understanding , procedural fluency
 level of achievement in

Assessment

will
plan
up
ing

Instruction

Assessment

Introduction

Context for Revision of the Learning Standards (2017)

NYS Next Generation Mathematics

Chair

Director

State Board

Understanding the NYS Next Generation Mathematics Learning Standards (2017)

Round Robin

- Előzetes megbeszélés
- Következő lépés
- Következő lépés
- Következő lépés
- Következő lépés



HIGH CEILING



LOW FLOOR

Continuous Round Table

- ~~8y1v~~

- ~~8y1b~~

- ~~1A61 16da~~
~~id~~

- ~~18y1sp~~
~~b~~

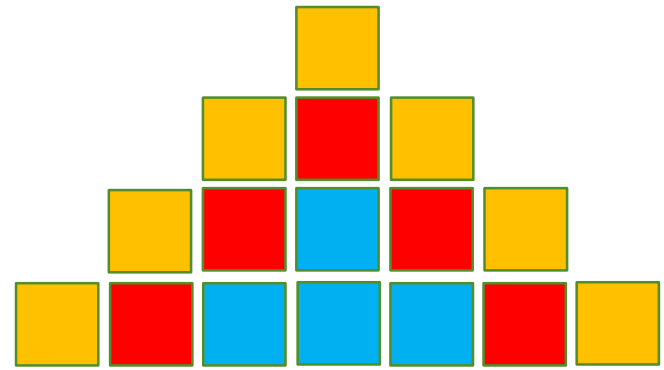
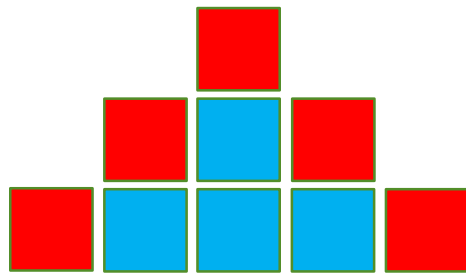
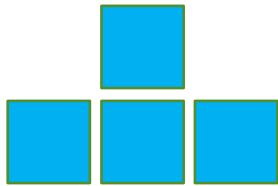
That's Me!

- ~~Walter~~

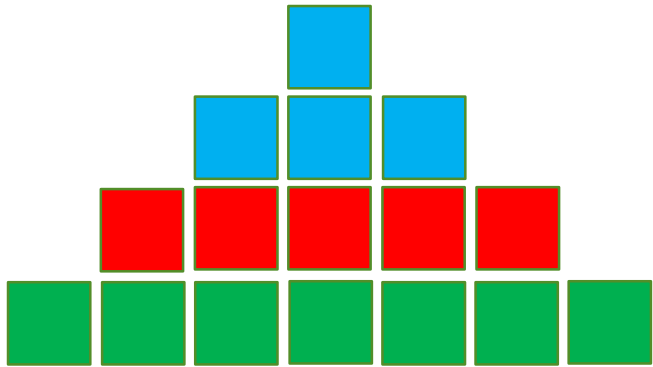
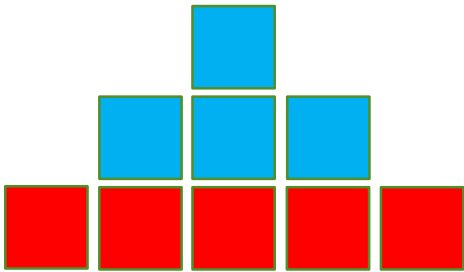
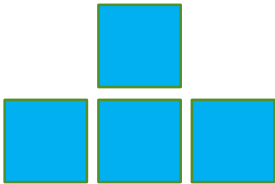
- ~~Walt~~
fighting
a ~~thin~~



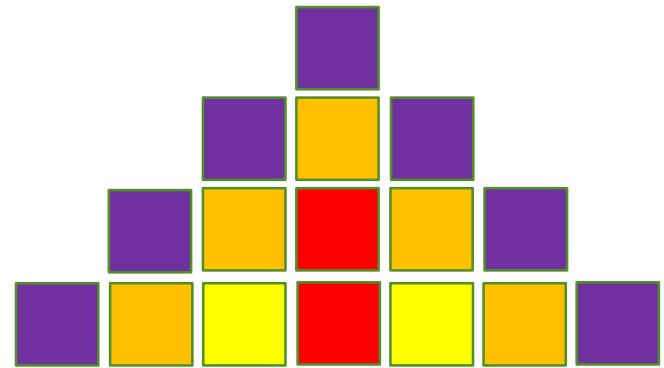
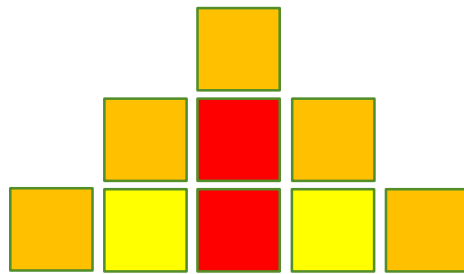
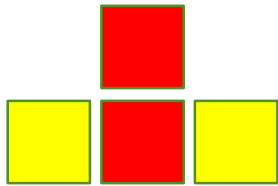
AVI



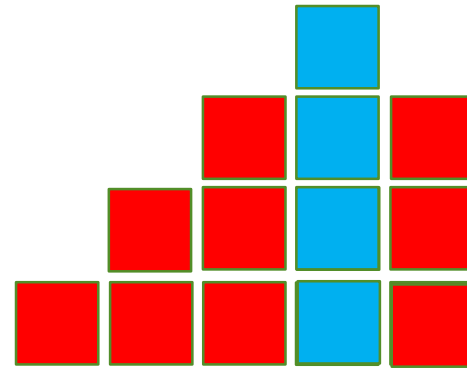
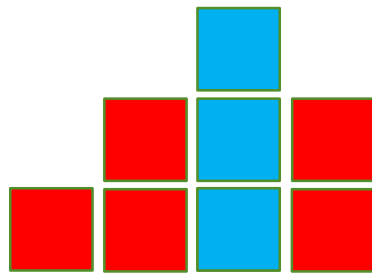
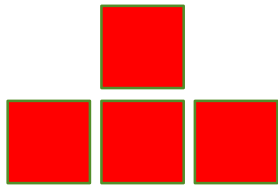
Big O

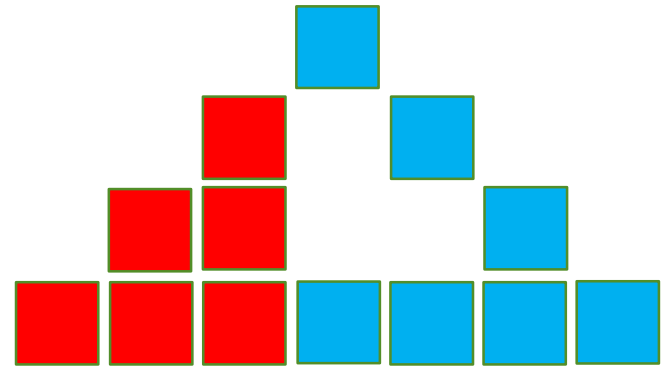
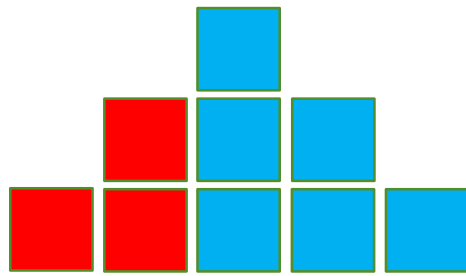
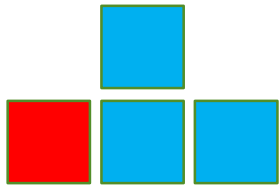


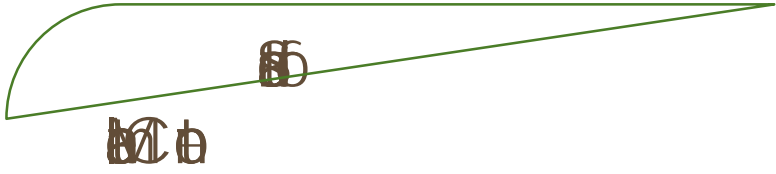
~~9W~~



~~EVN~~



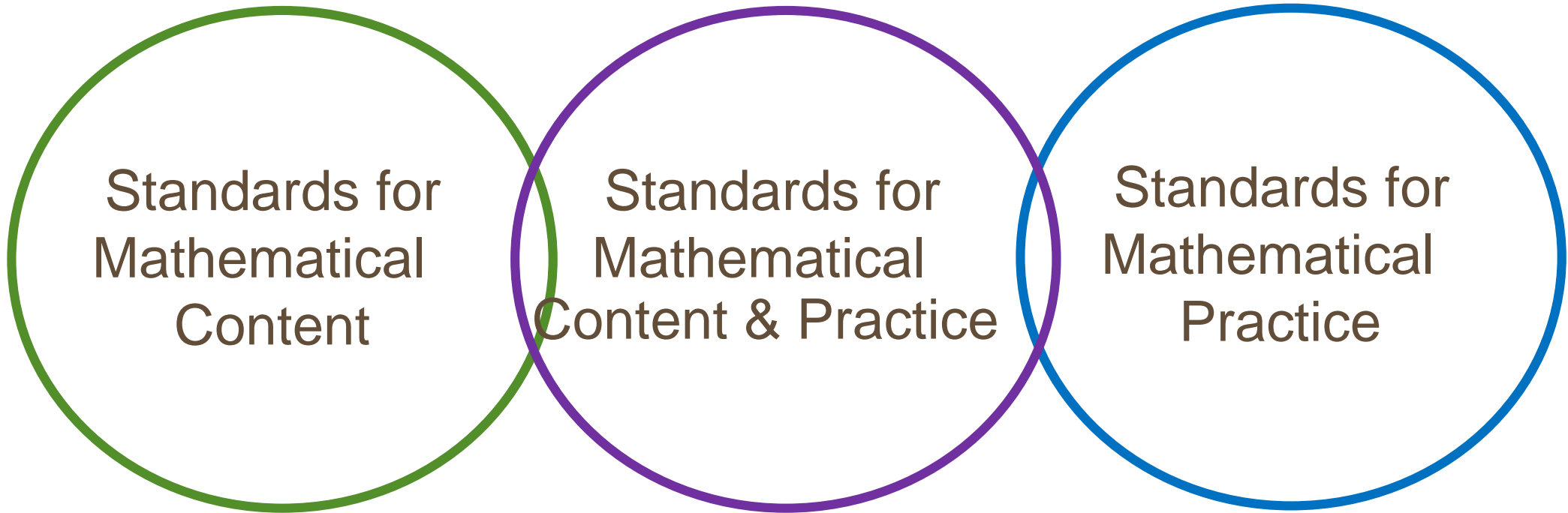




~~AND THINKING~~

~~AND~~

~~CITIZEN~~



What are the Standards for Mathematical Practice?

Standards for Mathematical Practice

1. Make sense of problems and persevere in solving them
2. Reason abstractly and quantitatively
3. Construct viable arguments and critique the reasoning of others
4. Model with mathematics
5. Use appropriate tools strategically
6. Attend to precision
7. Look for and make use of structure
8. Look for and express regularity in repeated reasoning

Table Talk

- ~~Eligibility~~
- ~~Attendance~~

~~Eligibility~~

~~Attendance~~

~~Attendance~~

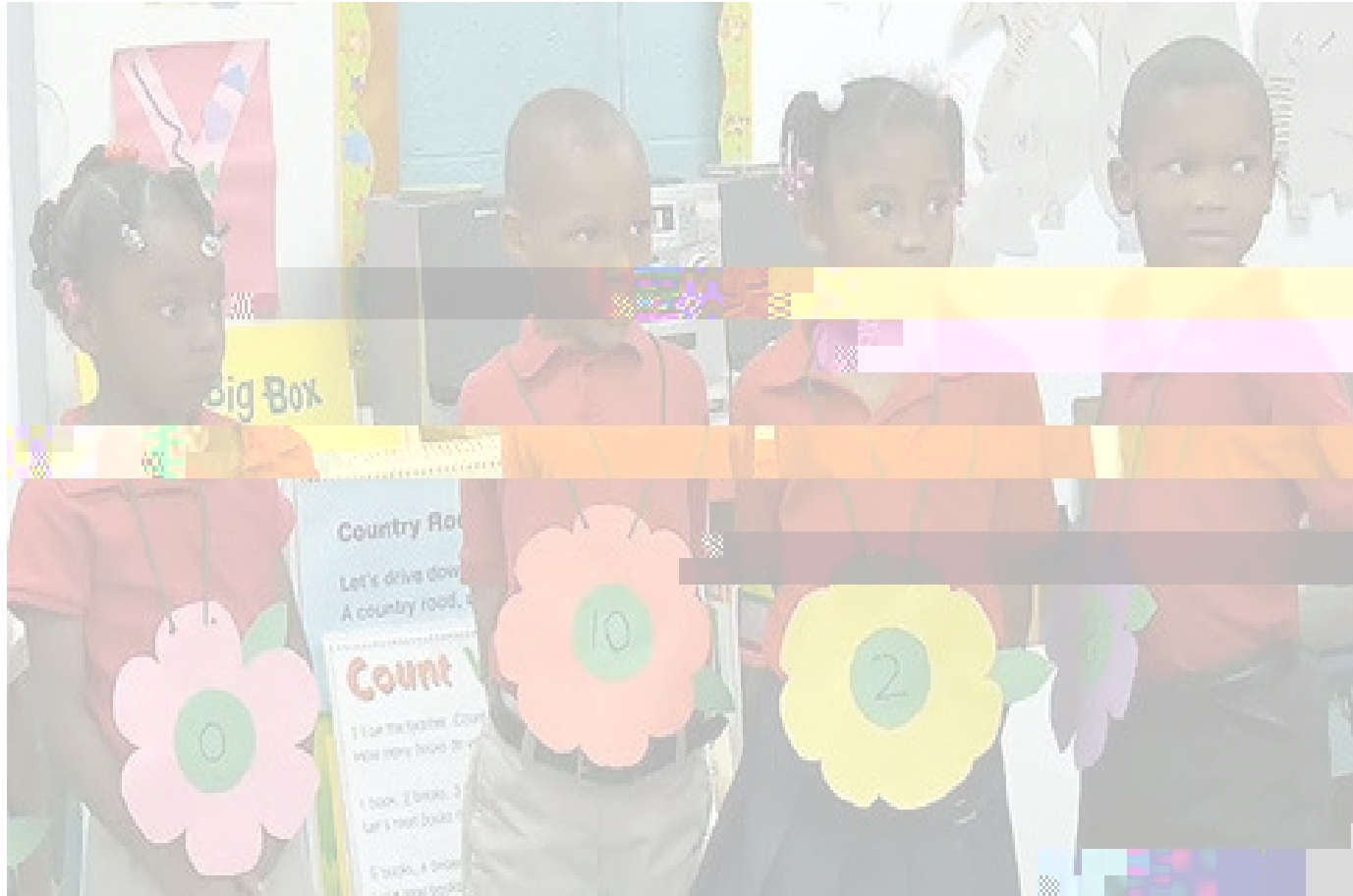
Work as an impactful and motivated data scientist developing technical **solutions to complex problems** . **Analyze data to identify trends** and support the development of mission-related analyses, using techniques such as econometrics regression analysis, cluster analysis, Bayesian analysis, discriminant analysis, sentiment analysis, support vector machines, survival analysis, and other modes of machine learning. **Contribute to the development of new concepts** and experiments, translate these ideas into executable action plans, and **communicate** these plans to a



WAVE

Reading

1



<https://www.teachingchannel.org/videos/pre-k-math-lesson>

~~ND BC~~

518-474-5922

~~ND~~

~~nd@nd.gov~~

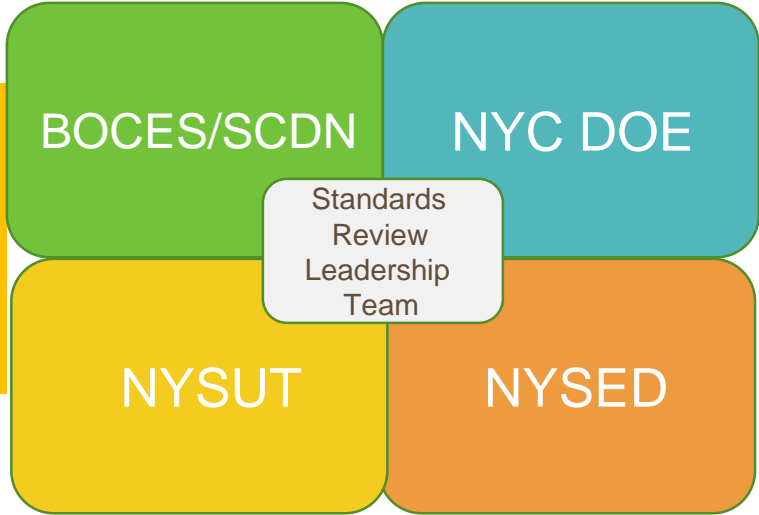
~~ND~~

~~nd@nd.gov~~

~~BC~~

(BCES)

EA
C
C
C
C
C



EA C
C
C
C

07/22/2020