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~~ID AN~~ ~~SCDN~~ - ~~MEMO~~ ~~SEAM~~
~~MAR~~ 28, 2018

NEW YORK STATE EDUCATION DEPARTMENT

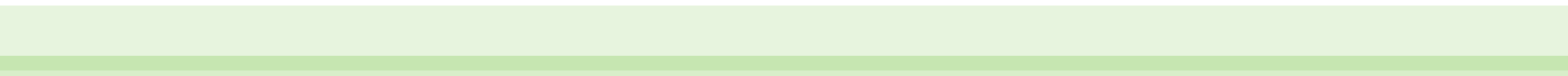
New York State Next Generation..

Mathematics Learning Standards

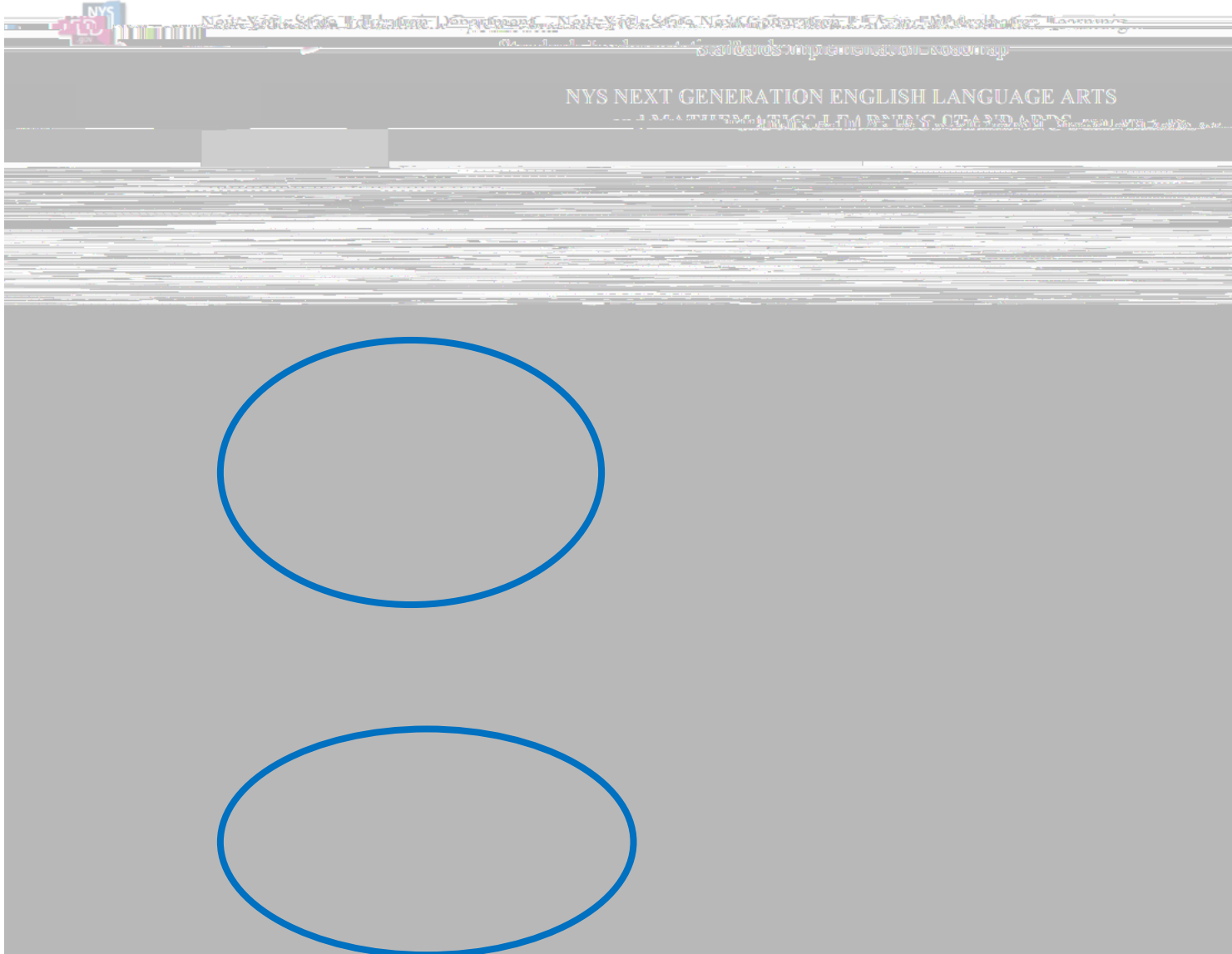
2017

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

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



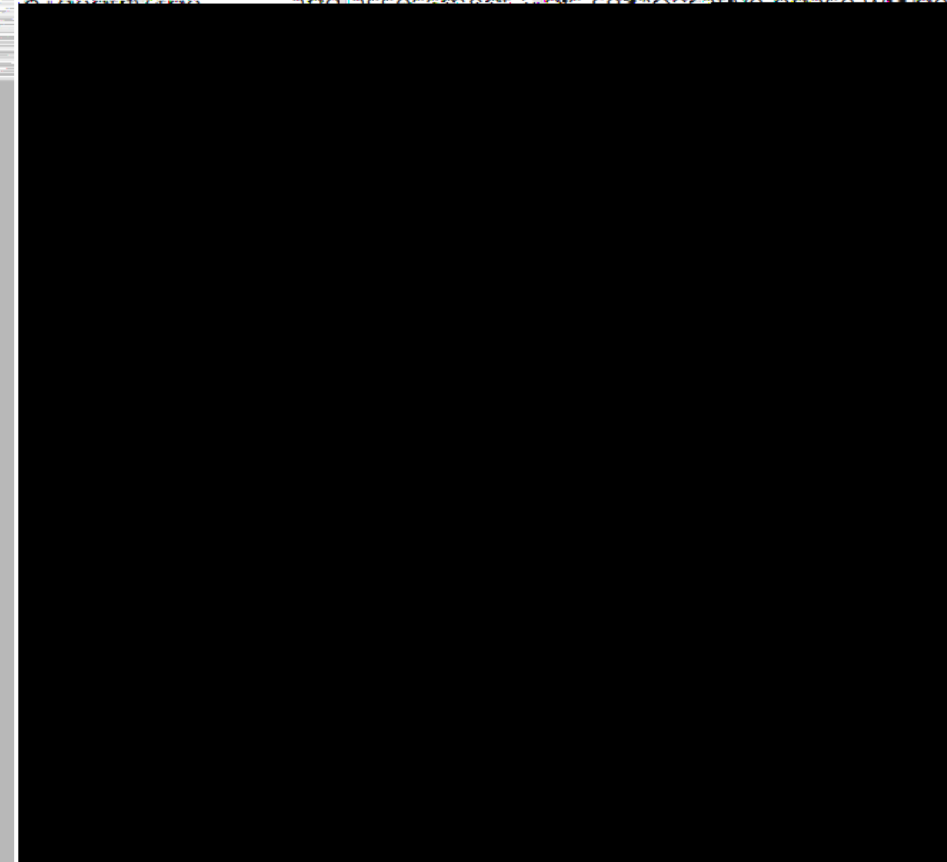




Phase I: Raise Awareness

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

to ensure that all students are able to access the resources of the program... and to ensure that all students are able to access the resources of the program... and to ensure that all students are able to access the resources of the program...



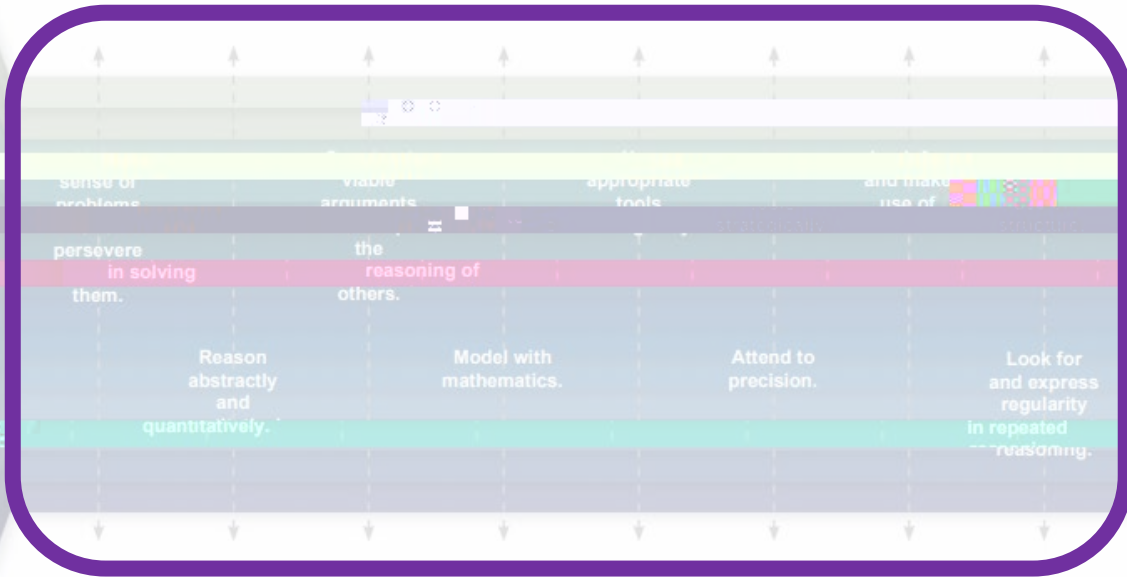




New York State Next Generation Mathematics Learning Standards

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 Standards
 for English Language
 Arts (ELA) were
 revised to reflect
 the collaborative efforts
 and expertise of
 all constituents involved.
 These revised standards
 reflect the collaborative
 efforts and expertise
 of all constituents
 involved.

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 a

feedback

Fall
2015

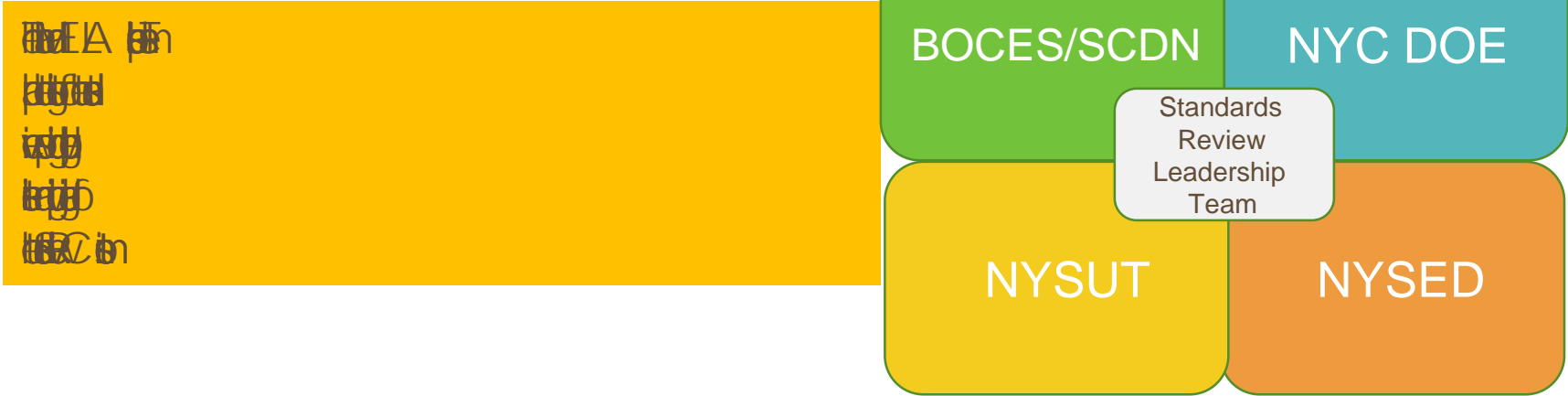
2015 Legislative Requirement: Standards re -evaluated with stakeholder input

ND 600
SD 8
600

Fall
2015

April
2016

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

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Fall
2015

April
2016

Sept.
2016

2015 Legislative Requirement: Standards re -evaluated with stakeholder input



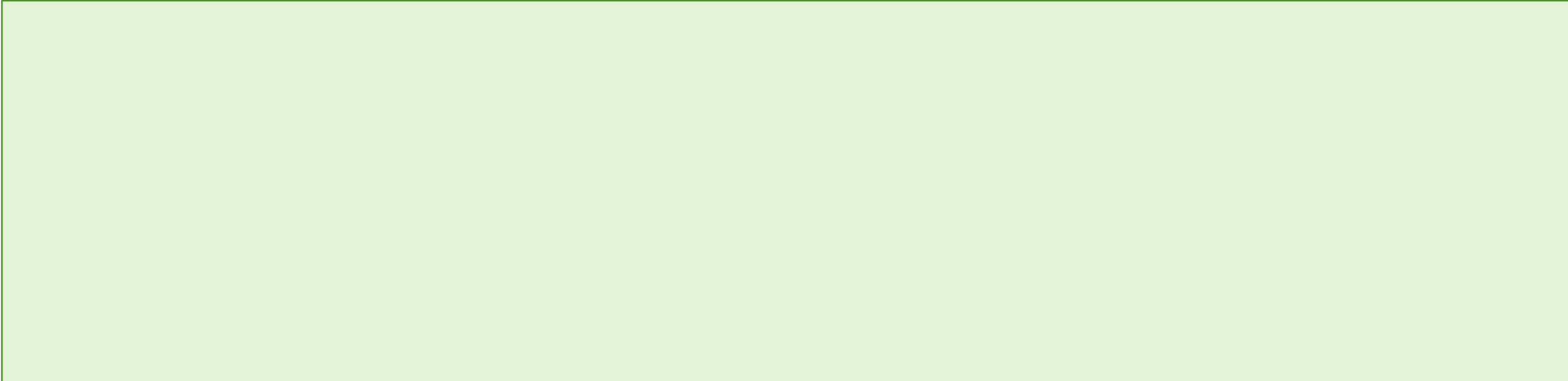
Fall
2015

April

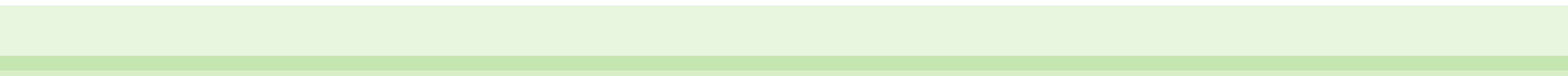
2015 Legislative Requirement: Standards re -evaluated with stakeholder input



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
- Közös feladat
- Kérdések
- Válaszok
- Következő lépés



HIGH CEILING



LOW FLOOR

Continuous Round Table

- ~~8/20/16~~

- ~~8/21/16~~

- ~~11/16/16~~ ~~11/16/16~~
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- ~~11/16/16~~
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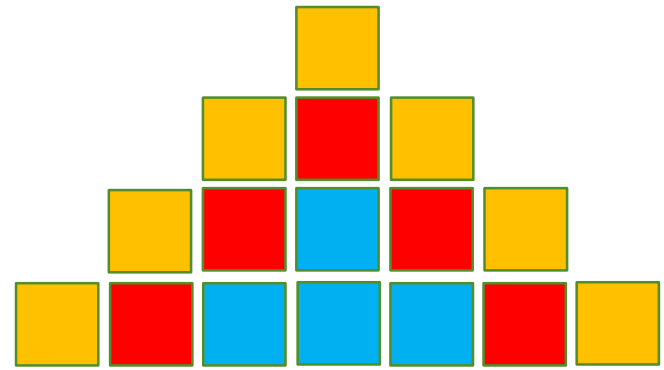
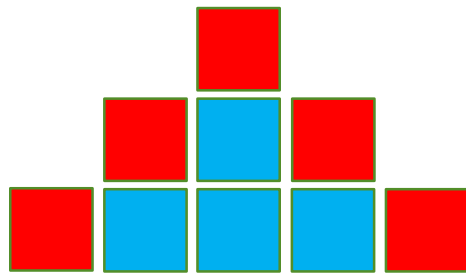
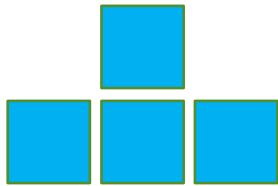
That's Me!

- ~~Walter~~

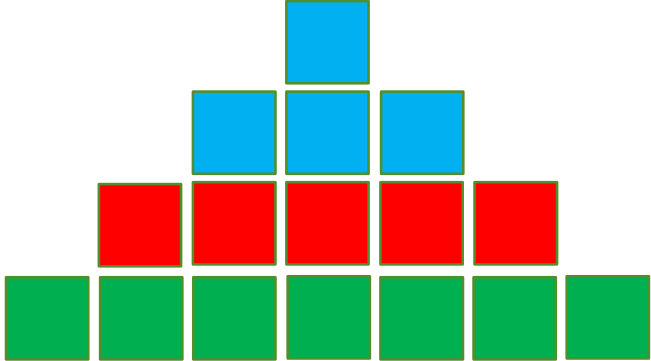
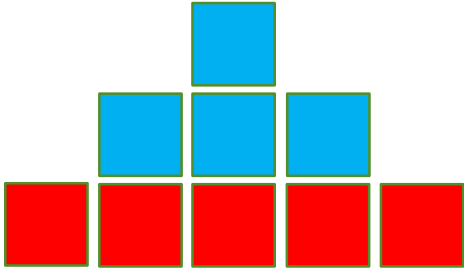
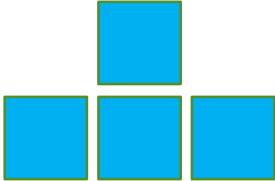
- ~~Walt~~
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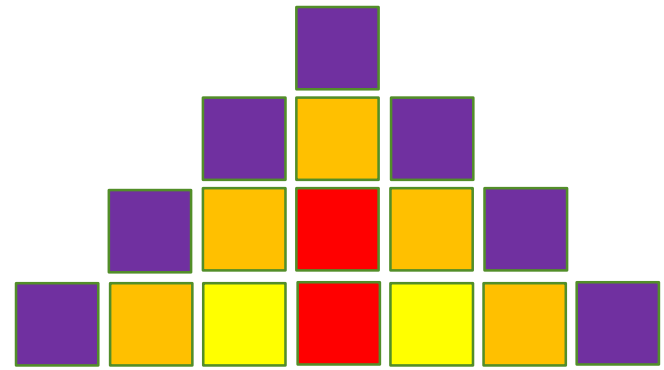
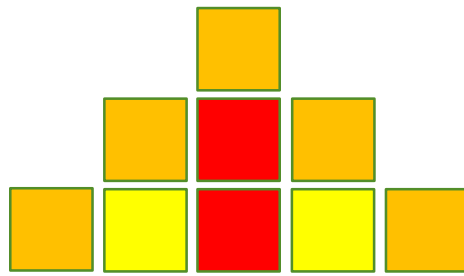
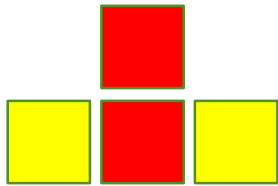
AVI



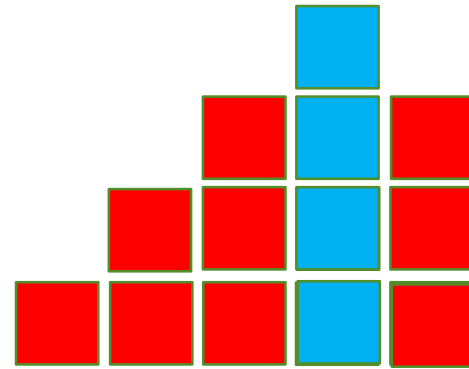
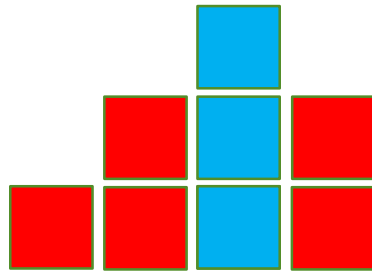
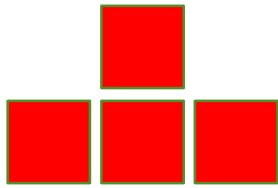
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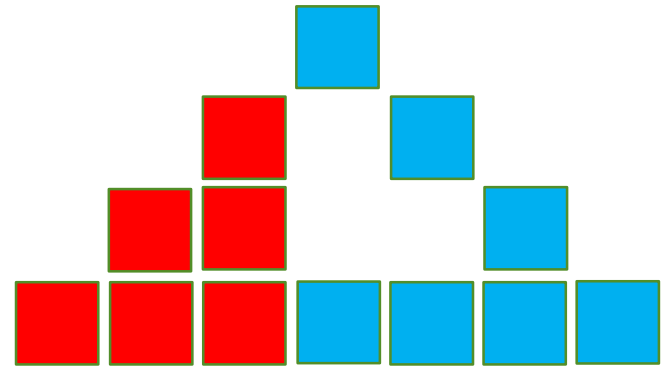
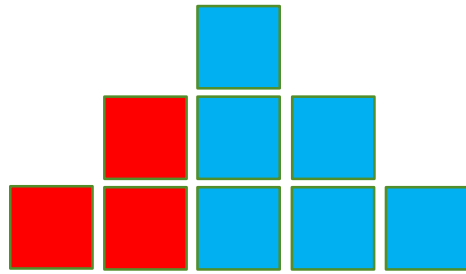
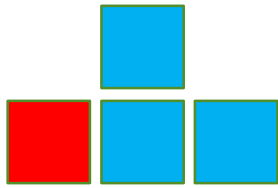


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~~AND THINKING~~

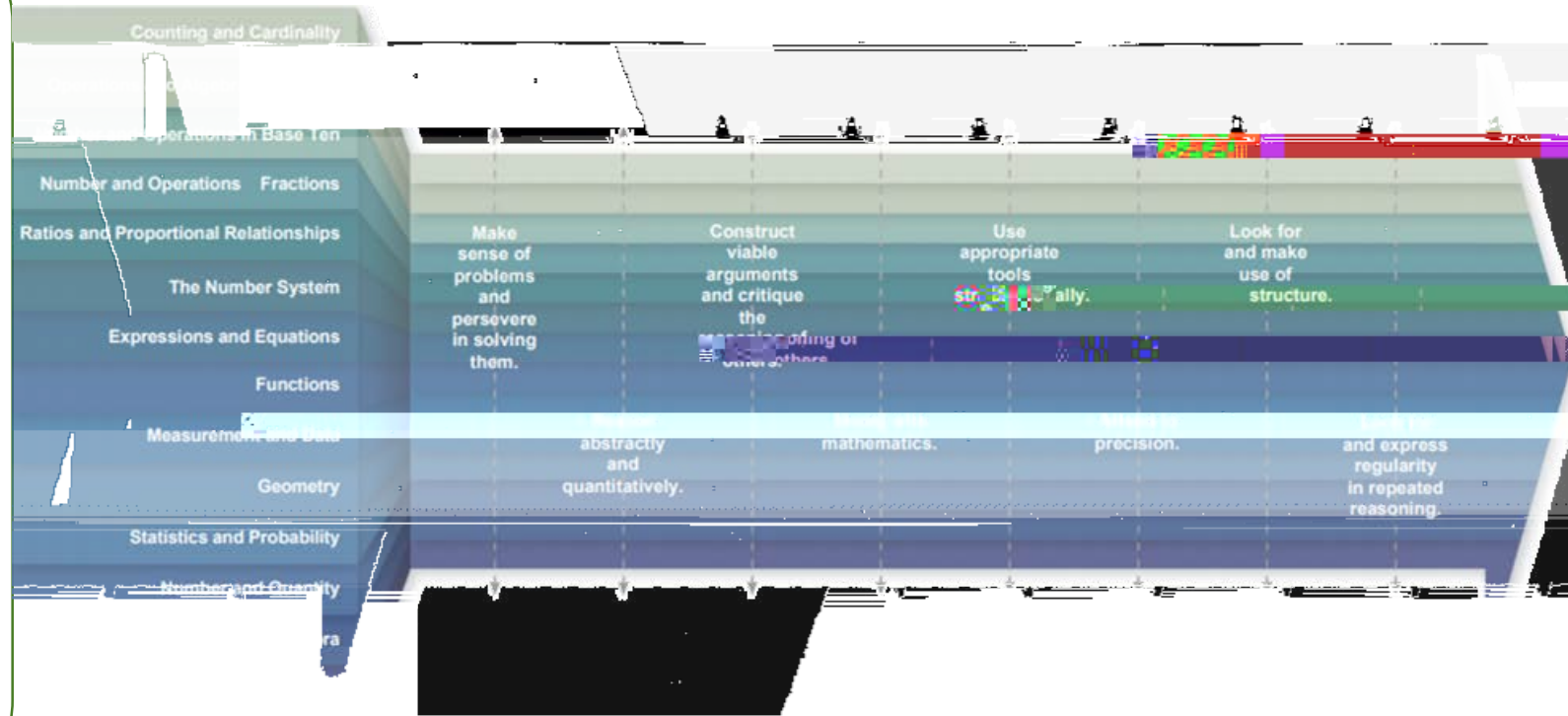
~~RECEIVED~~

~~Circle~~

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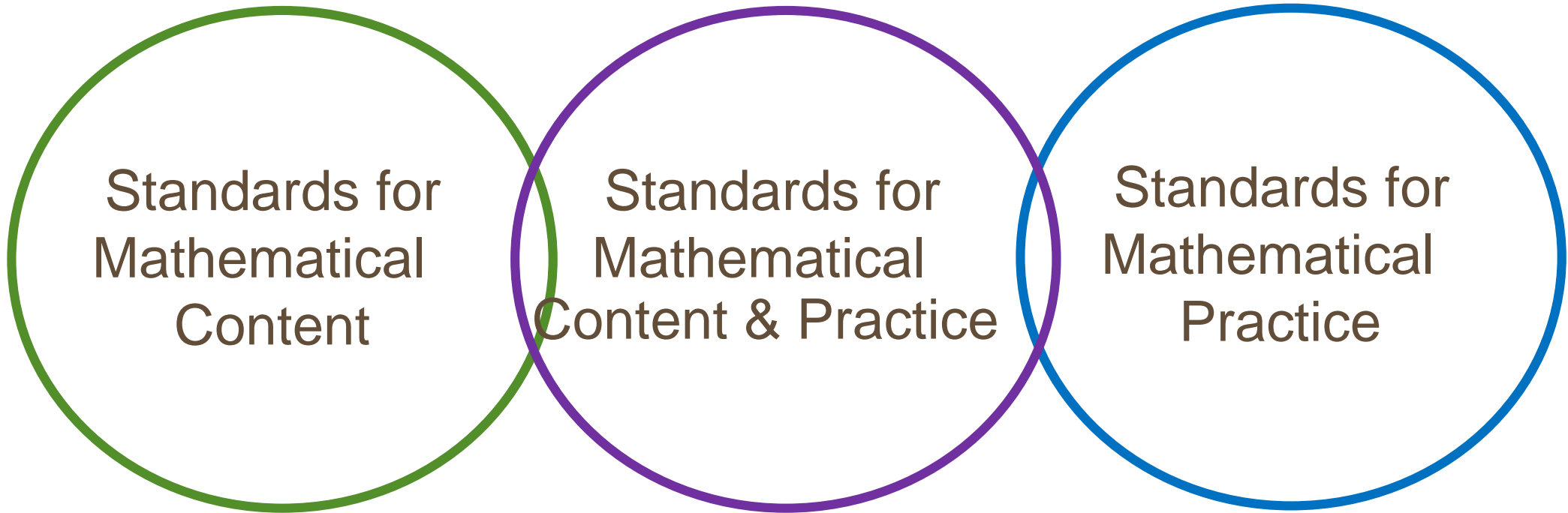
NY-3.OA.9
NY-4.OA.5
NY-5.OA.3
NY-6.EE.1
NY-6.EE.2
NY-6.G.5
AI-F.BF.1a



~~AND THINKING~~

~~AND~~

~~CITATION~~



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~~

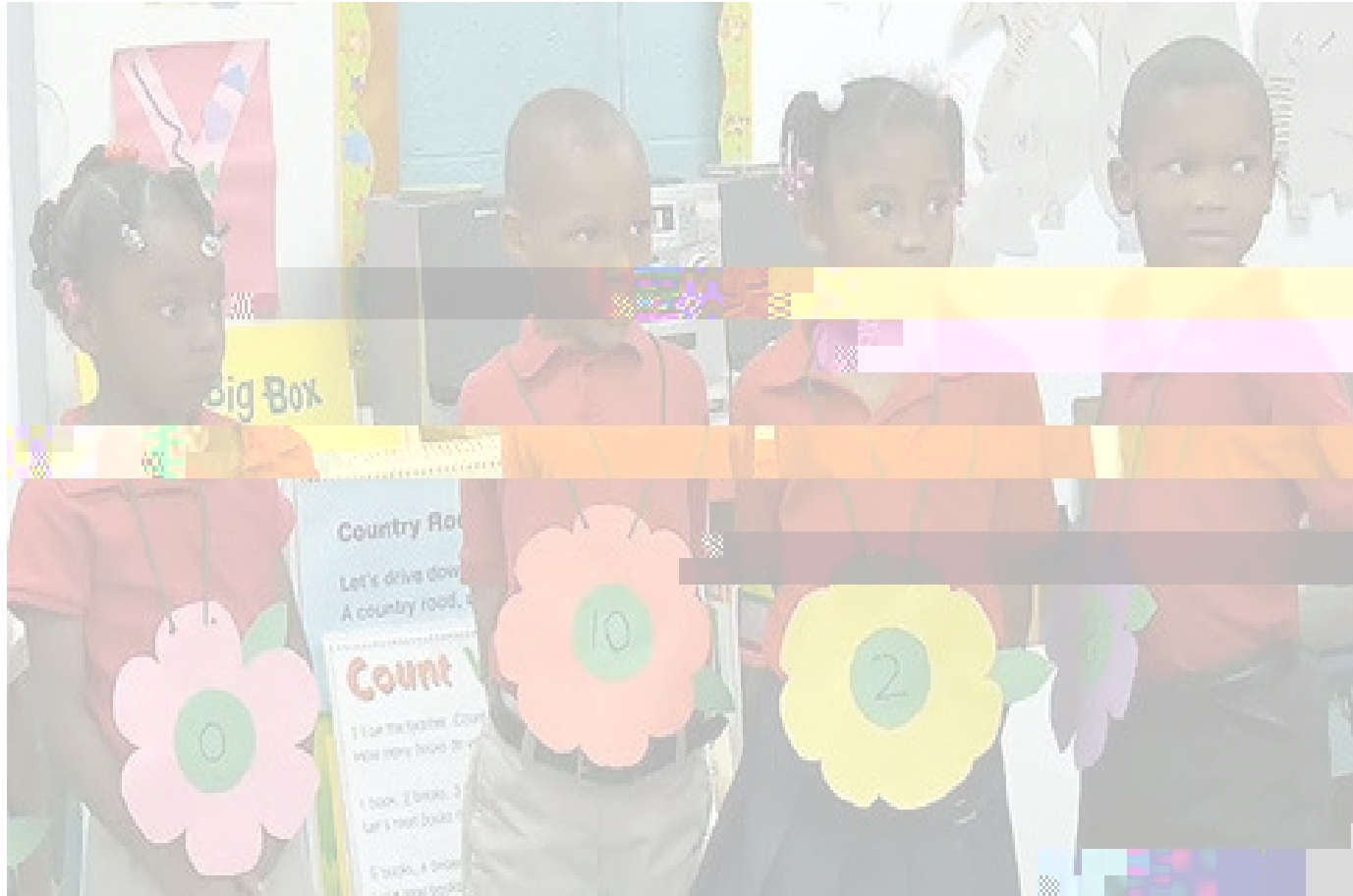
Work as an impactful and motivated data scientist developing technical **solutions to complex problems** . **Analyze data to identify trends** and support the development of mission-related analyses, using techniques such as econometrics regression analysis, cluster analysis, Bayesian analysis, discriminant 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>

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518-474-5922

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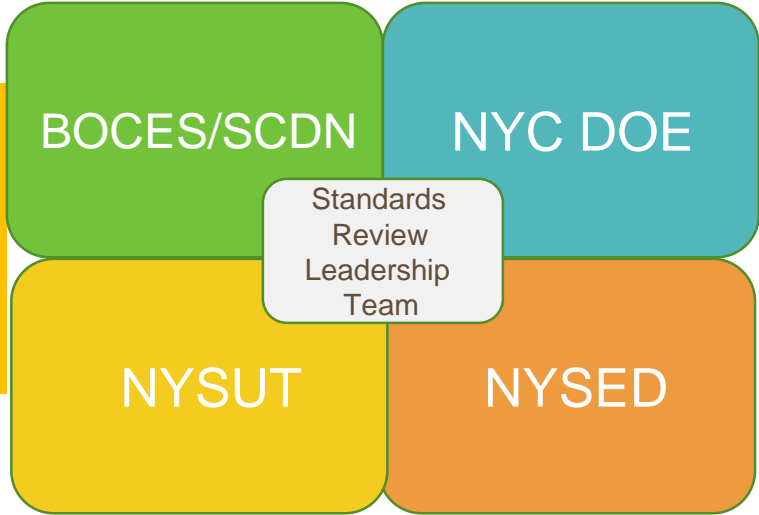
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(BCES)

BOCES/SCDN
NYC DOE
NYSUT
NYSED
Grade Band Committees



Grade Band Committees

Facilitator : *[Name]*

BOCES/SCDN
NYC DOE
NYSUT
NYSED
Grade Band Committees

07/22/2020