

NYS Next Generation Mathematics Learning

The projected time line for standards and assessments over the coming years is:

"September 2017: Adoption of Next Generation Mathematics Learning Standards

Awareness Building 2017-2018 School Year: Two-day assessments measuring the

NYS P-12 CCLSM standards, professional development on Next Generation Standards

Capacity Building 2018-2019 School Year: Two day assessments measuring the

NYS P-12 CCLSM standards, professional development continuing on Next Generation Standards,

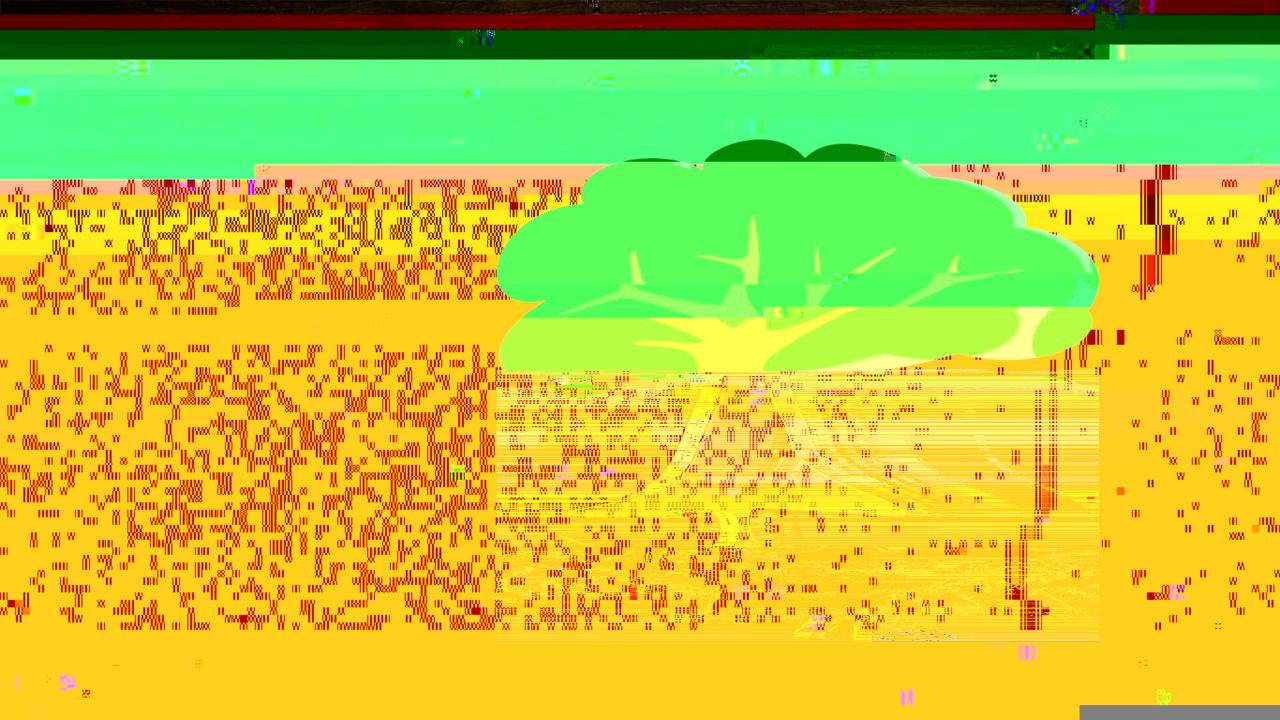
Capacity Building 2019-2020 School Year: Two-day assessments measuring the

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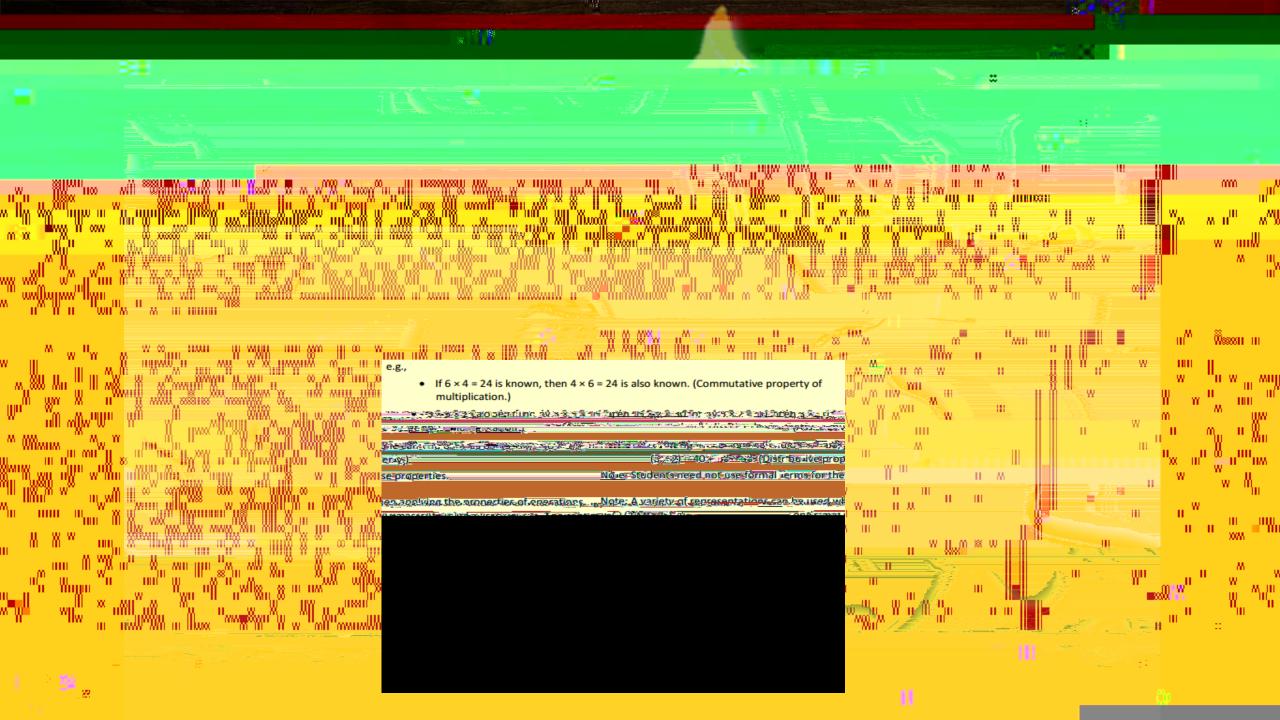
Full Implementation September 2020: Full Implementation of the Next Generation Mathematics

Spring 2021; New grade 3-8 tests measuring the Next Generation Mathematics Learning Standards.

At this time, the time regarding the full implementation was essment alignment of the NYS Next Generation Mathematics Learning Standards at the high school level has not yet been determined and will be forthcoming, however, full implementation/assessment alignment of those standards will not be before the school year 2020-2021.

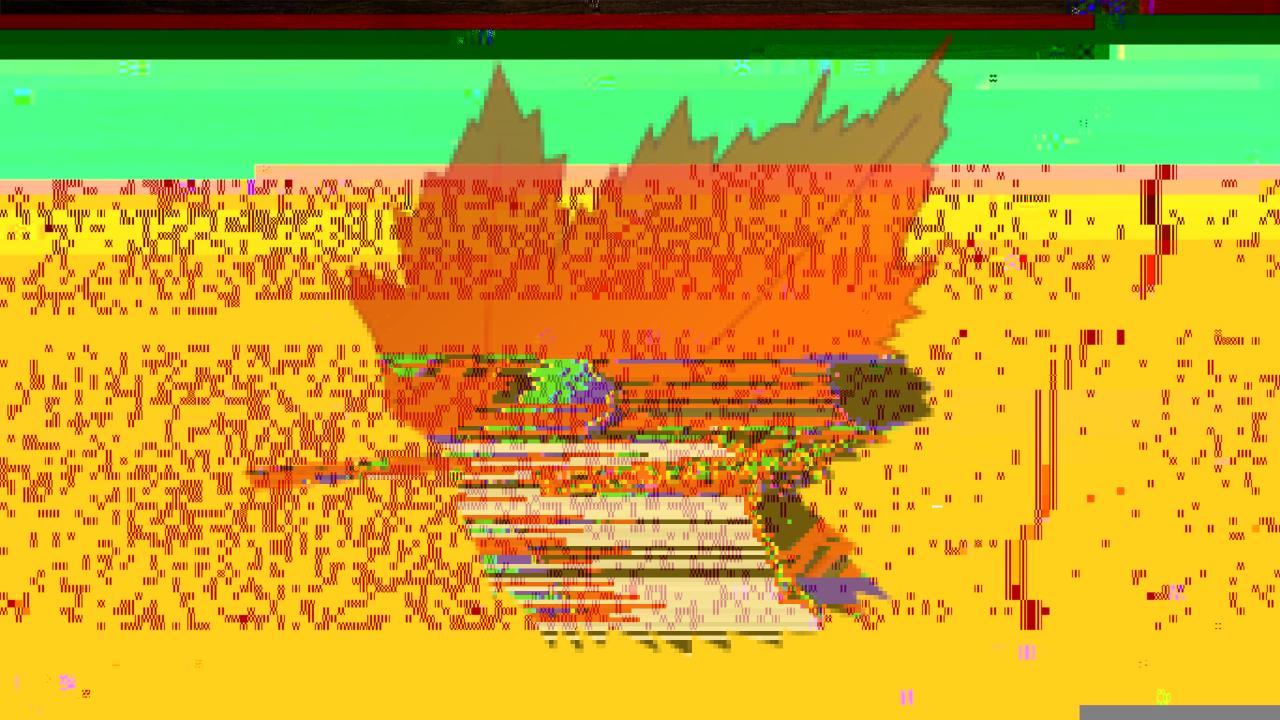


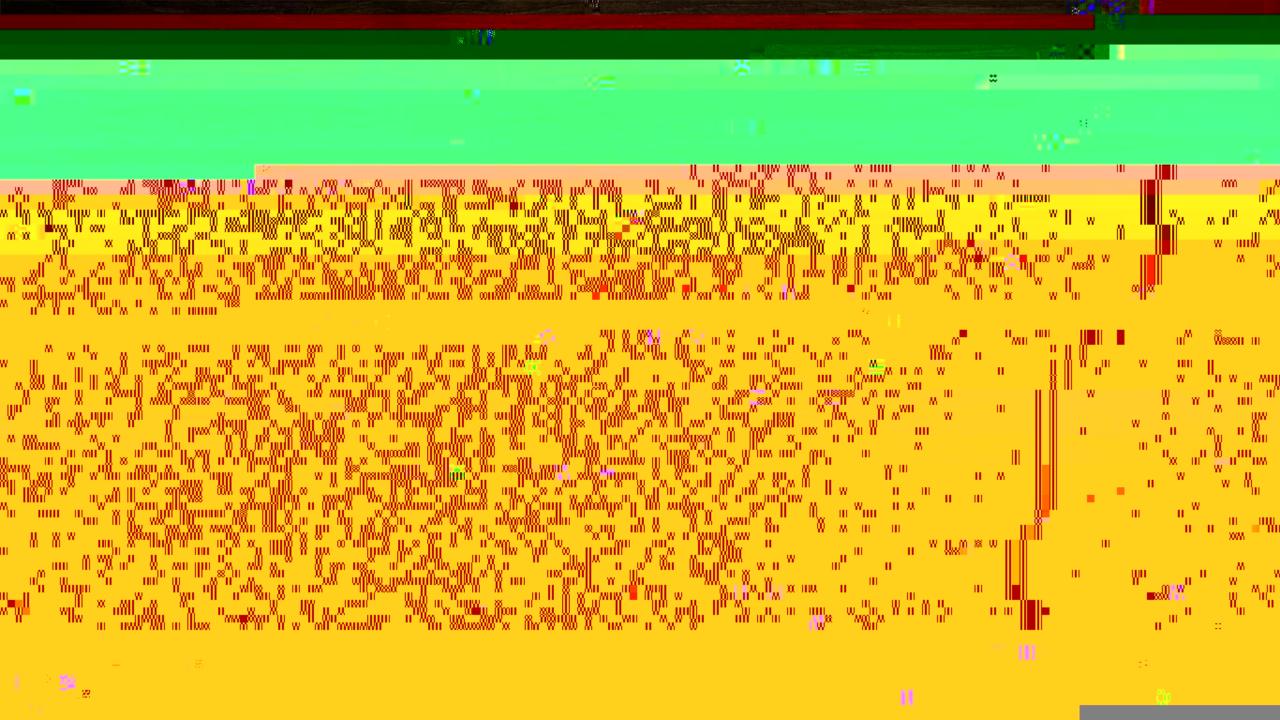












Examples of Major Changes Grades 3-5 This does not include all changes

Txpectations of Expanded Form at leach grade, level are, now, specified.

"Grade#8

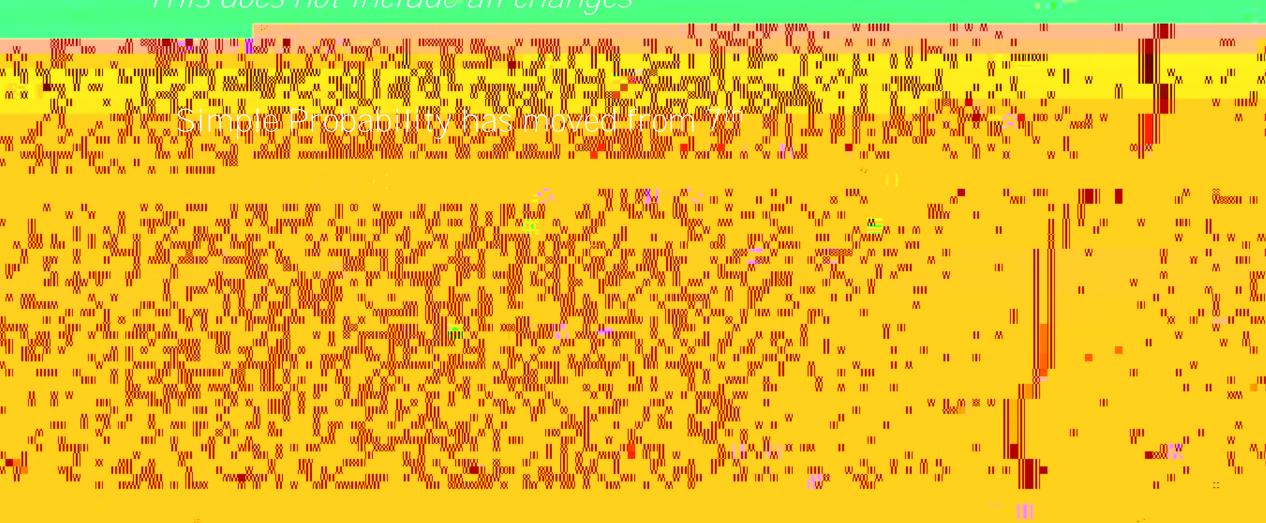
"Since angle measure is a 4th grade concept, Grade 3"now focuses on "classifying polygons on number of sides and vertices (not angles)

'Grade.4

Tropus of the standard is multiplying a whole number by a fraction (4 x 1/3 whereas multiplying a fraction by a whole number (1/3 x 4) is an series of the stant of the stant

Delayed the introduction of the Order of Operations until grade 5 (NY-5"OA",1), orlginally introduced in Standard 3.0A.8.

Examples of Major Changes Grades 6-8 This does not include all changes



Examples of Major Changes Algebra I This does not include all changes

Operations with Radicals were added

Solving Linear/Quadratic Systems was added

Expectation for factoring quadratios involves tringmials whose read coefficient is flafter a GCF has been factored. "" |

Expectation for completing the square involves quadratics whose lead coefficient is 1, with an even linear term.

Residuals have been moved to the Plus Standards

Sequences will be limited to explicit forms only and will be written in subscript notation.

Examples of Major Changes Geometry This does not include all changes

Completing the square to decive the center radius form of a circle with involve quadratics whose lead coefficient is 1 and the linear term is even following from Algebra 1.

Radian measure is now an expectation for Afgebra "

Cavalieri's Principle, dissection and informal limits are not an expectation, but still can be used to develop area and volume form it as

Examples of Major Changes Algebra II This does not include all changes

Proving Pythagorean Identities has been moved to the Plus Standards

Deriving the equation of a parabola given the focus and directrix has been moved to the Plus Standards.

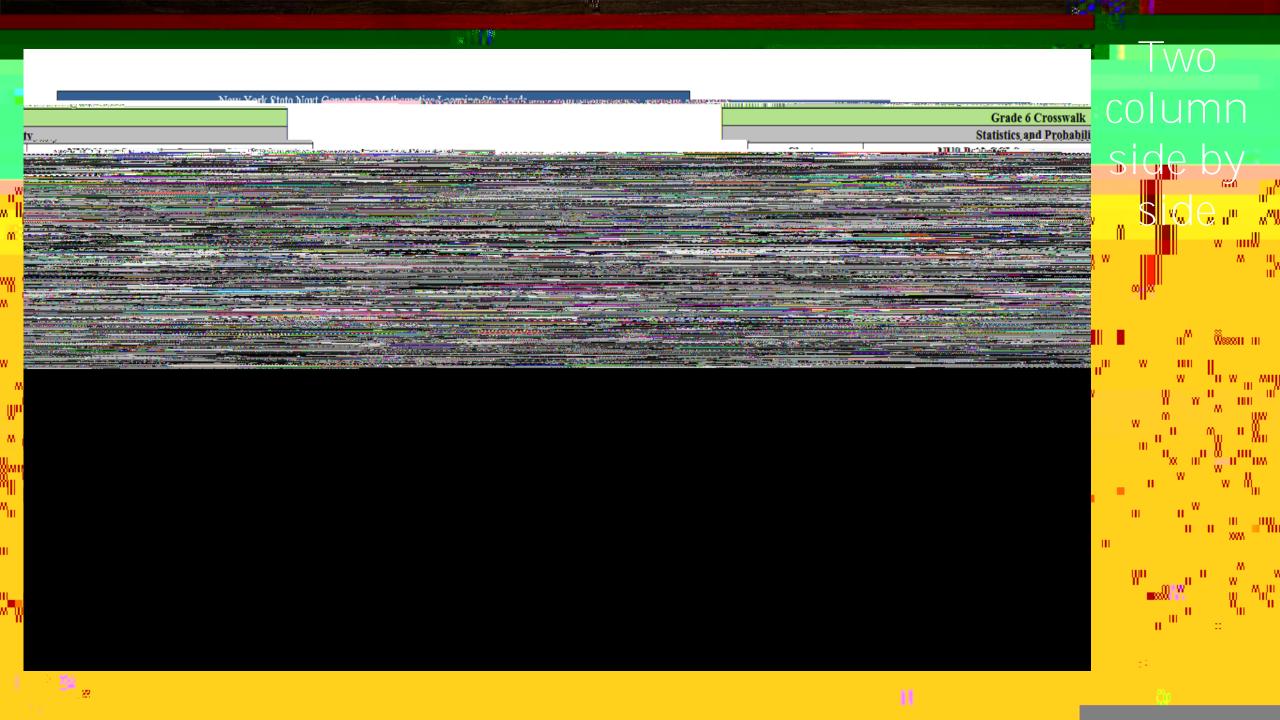
Probability and Statustics standards have been consolidated

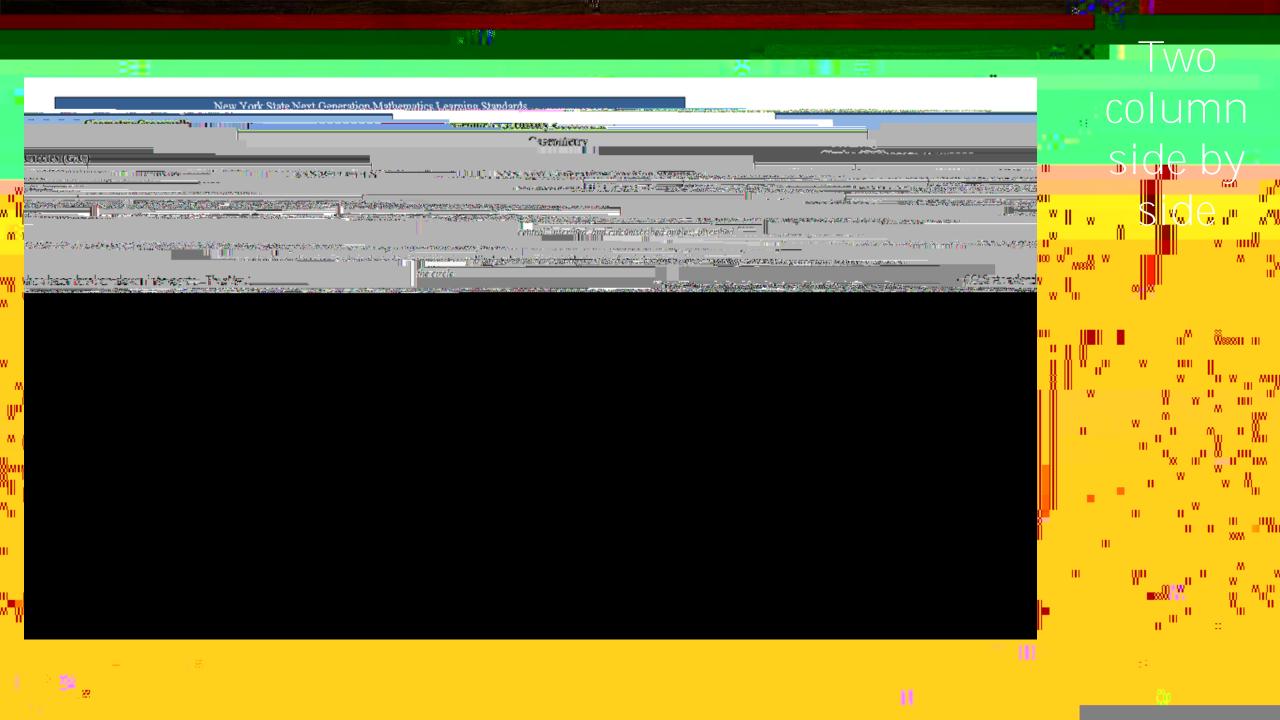
Sequences will only be written in subscript notation

Where are all of the changes highlighted?



New York State Next Consection Methamatics Learning Standards nd lesson. This document is intended to help educators identify the key charges that have occurred to the content standards for this grade level/course and to assist with designing couriculum a Snapshot Standards New to Grade 1 er i i periore, come preier la imperiore de la come de la come de la come en la come de la come de la come de l ene anice e constante de comitione i un Sére de Milane, commune diference de cinare i Nova de Ciliane. Standards Moved from Grade 1 No standards moved. if it 20 is solve asseries word are alone. Preplemention if be represented using objects, crewings, and equations with a INV-1.40A.1 Students are using addition and subtraction w less arrandices in world with intercenting by a Syrigh personal The first and the second secon ENGLIKATI MARAKAMANITA (Di Inglia projeta maraka maraka maraka mili paka mili apaka maraka pendaran serenia Blood in the contraction and it is a boundary of the light of the light of the contraction of the contractio





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Card Sort

Sort the cards into the categories pased on the TYPE'S OF CHANGES

Clarification (standard was split up

Examples/Illustrations

Card Sort Share Out PK 1 5

Olarifications/Splittup

NY-4 NB7 2a 2b

NY-3 MB 8a 8b

NY-2.0A.1a, 1b

#MY-2:0A,3a#3b#

iNotes"

MYK!OA.5

"Examoles/IJUstrations

NY-5. NF.4b

NY-52NF.5a.

Card Sort Share Out MS/HS

Clarifications/Spattup

"""AÏI-F.LE.2

Moved/Removed

1"8,SP.4

7.ISP/51.6

i9Id°cfYl

Geo-G. GRE:5

AII-N.RN.1

AII-F.BF.7

Notes"

₩([\, Y; /|\, || E". 4"2;;

, NY-8.G.3 , " " " " " " *

Examples/Idustrations

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WY#6.G".5"

Al-A.RET.7a

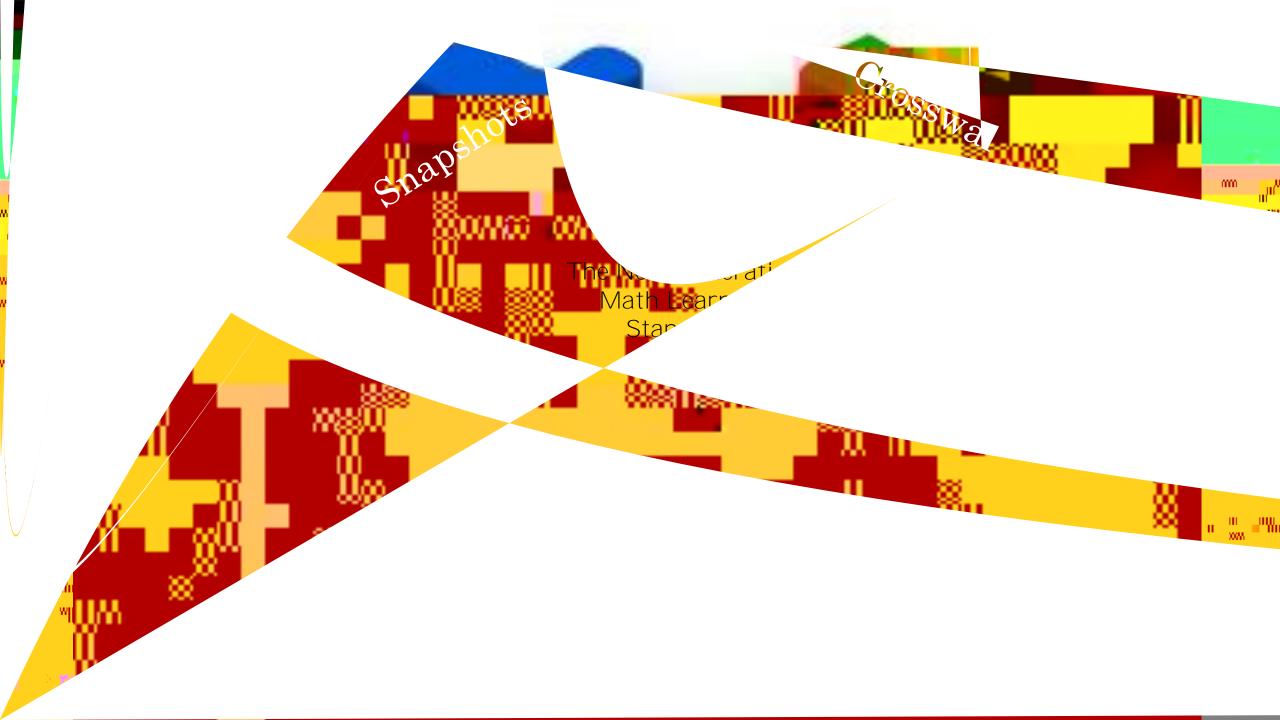
Stop and Process Talking Pens

Hach member of your team will Use their ben or peholic in the lower beneation posed to be about the guestion posed

""Once you have shared your thought, place your pen or pencil in the center of the capter of the cap

Mou may take your pen or pencil back after you share your second I thought members share their thoughts until each person has I shared twice



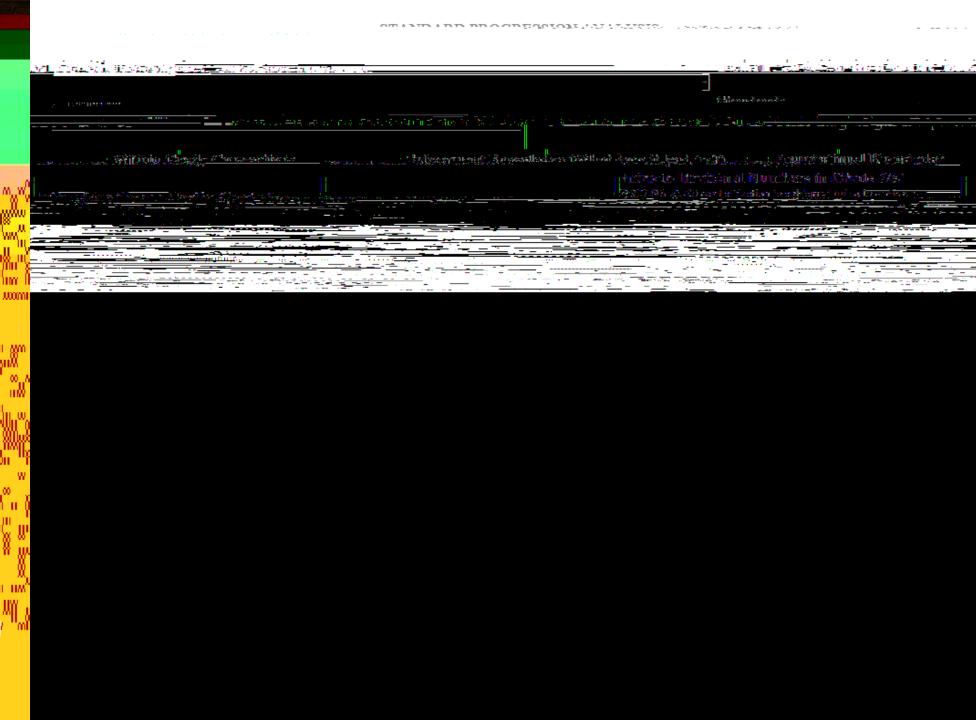


How impactful is the new standard/change with respect to our current curriculum?

What foundational knowledge do strudents have? It was a limit on a can we make within our grade level? Have we been making these connections already?

How does this support standard/skill support student learning of mathematical concepts at future grade levels?

Will there be any learning gaps that will need to be addressed?



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