

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,

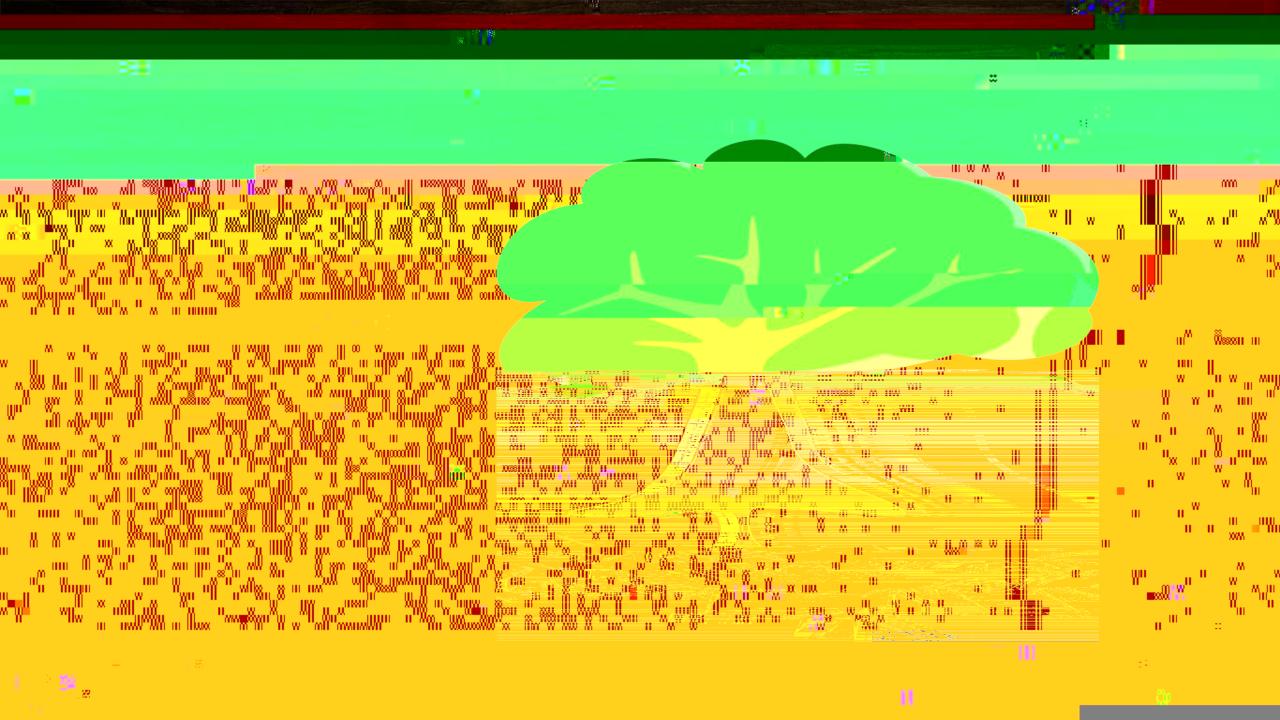
Capacity Building 2019-2020 School Year: Two-day assessments measuring the

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

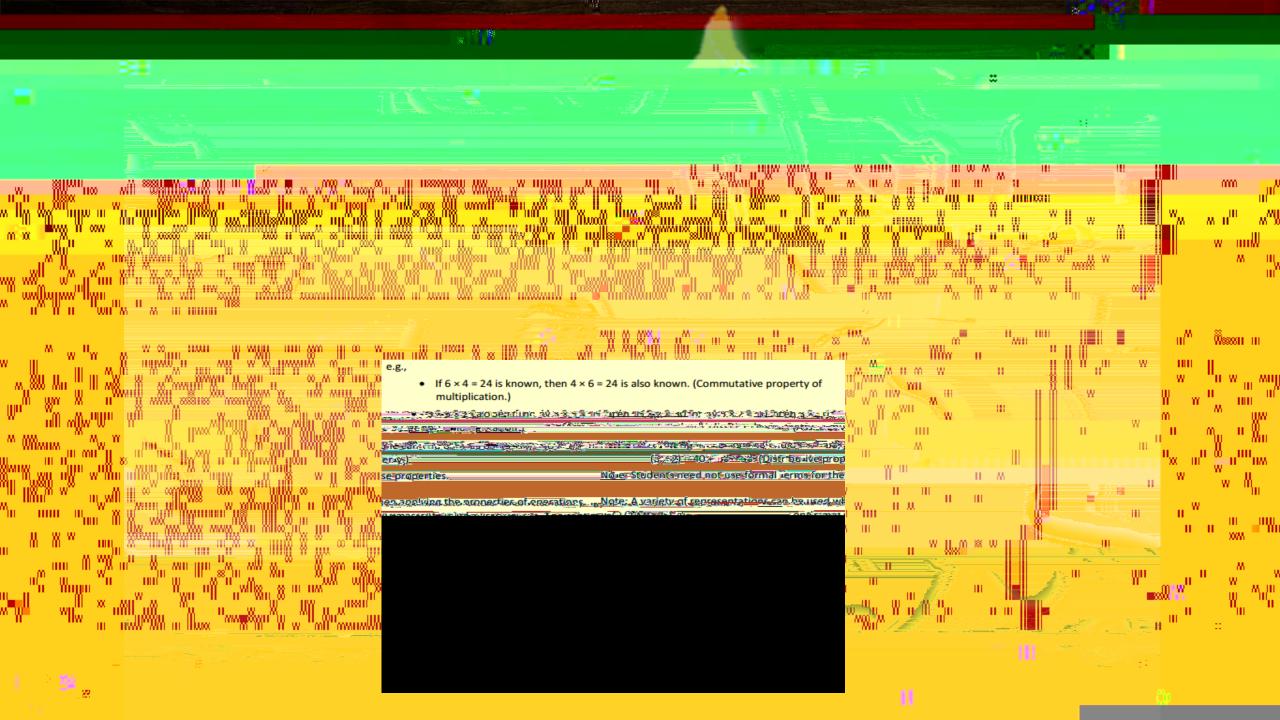
Full Implementation September 2020: Full Implementation of the Next Generation Mathematics

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.

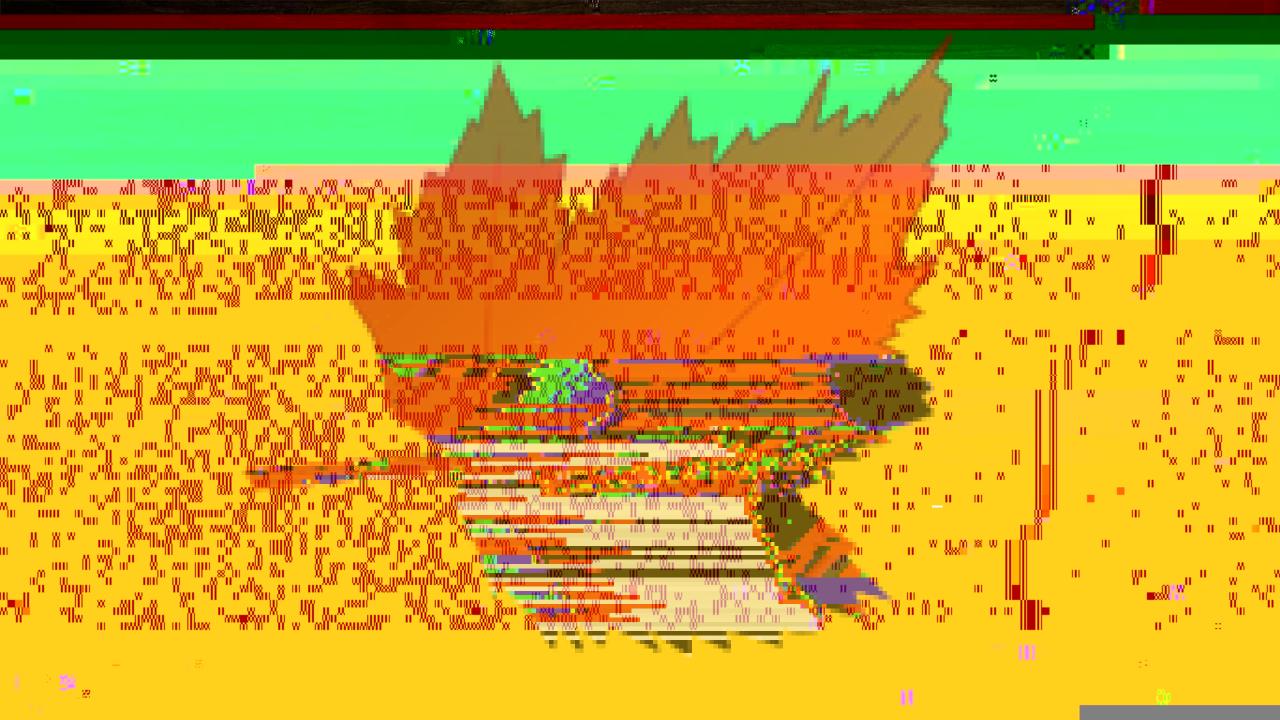














Examples of Major Changes Grades 3-5 This does not include all changes

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 "«Tassifying polygons on number of sides and vertices (not angles)

Grace.4

Foous of the standard is multiplying a whole number by a fraction (4 x whereas multiplying a fraction by a whole number (1/3 x 4) is an expectation of grade 5 (NY-5 NF 4a).

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 formalias.

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

Province Pythagorean I dentities has been moved to the Plus Standards

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

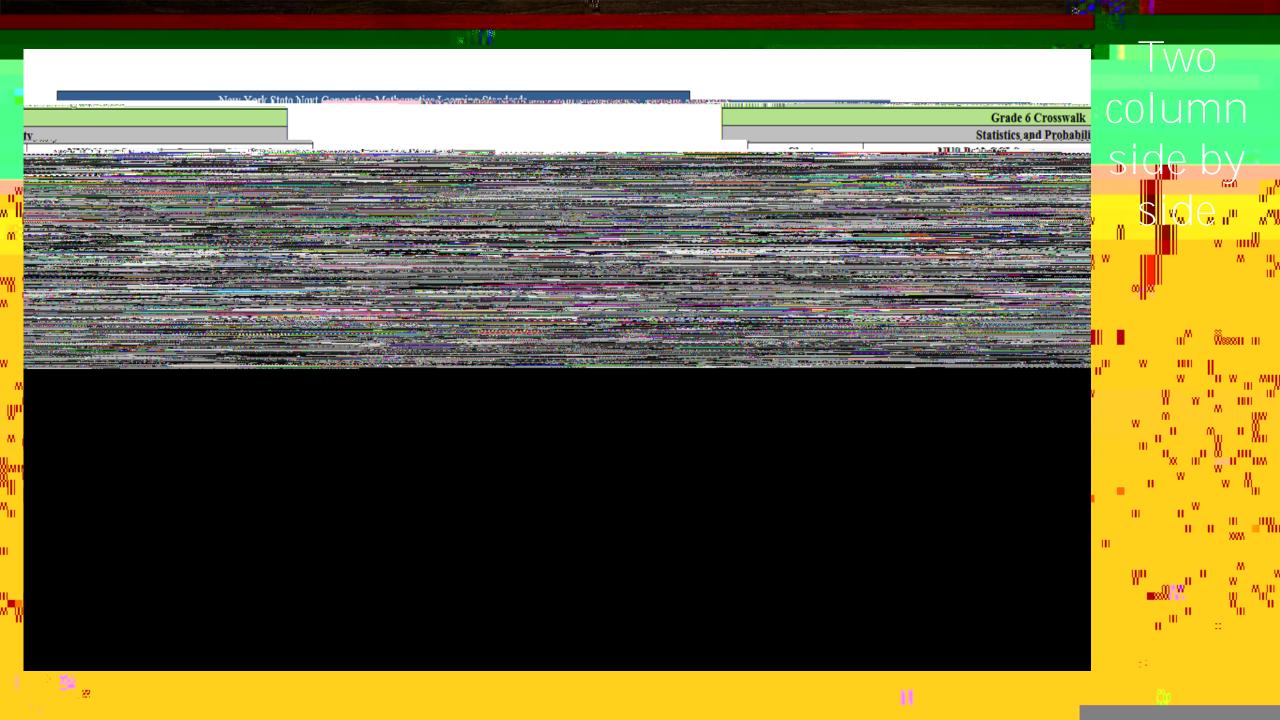
"Probability and Statustics standards have been consolidated

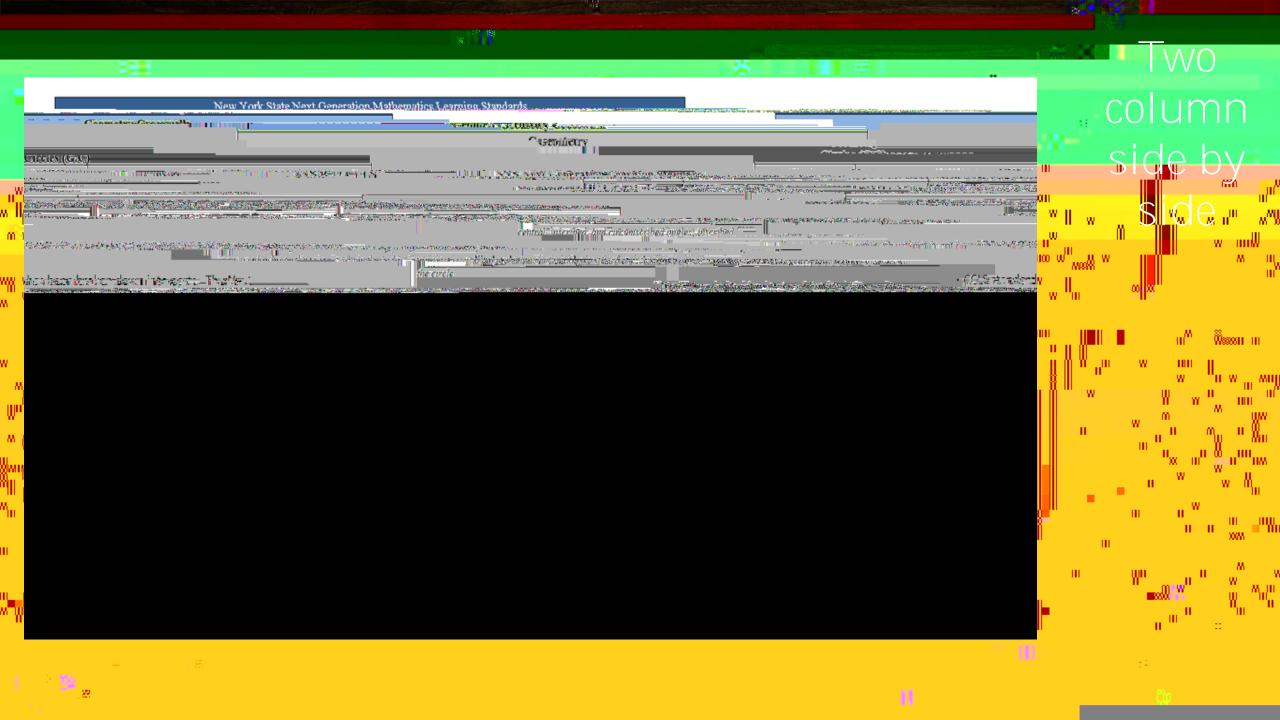
Sequences will only be written in subscript notation

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 comincia de Constant de Constante de la comune de la Constante de Constante de Consta Standards Moved from Grade 1 No standards moved. if it 20 is solve asseries word are alone. Preplemention if be represented using objects, crawings, and equations with a INV-1.40A.1 Students are using addition and subtraction w geografication of the contraction of the property of the period of the p The first and the second secon ENGLIKATI MARAKAMANITA (Di Inglia projeta maraka maraka maraka mili paka mili apaka maraka maraka maraka marak 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

Olarification (standard was split up

Examples/Hlustrations

Card Sort Share Out PK 1 5

NY-2.0A.1a, 1b

#WY#2"OA,3a#3b#

iNotes...

NY KIOA.5

"Examples/Illustrations

NY 4 M D 1

NY-5. NF.4b

NY-**5**2NF.5a

Card Sort Share Out MS/HS

Charifications/Sphitup - All All Not

MII-F.LE.2

Moved/Removed

1 8 SP 4

7.ISP/51.6

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Geo-G. GRE:5

AII-N.RN.1

AII-F.BF.7

NY-8.G.3

Examples/Illustrations

...Geo.G.CO.10

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WY#6.G.5"

Al-A.RET.7a

Stop and Process Talking Pens

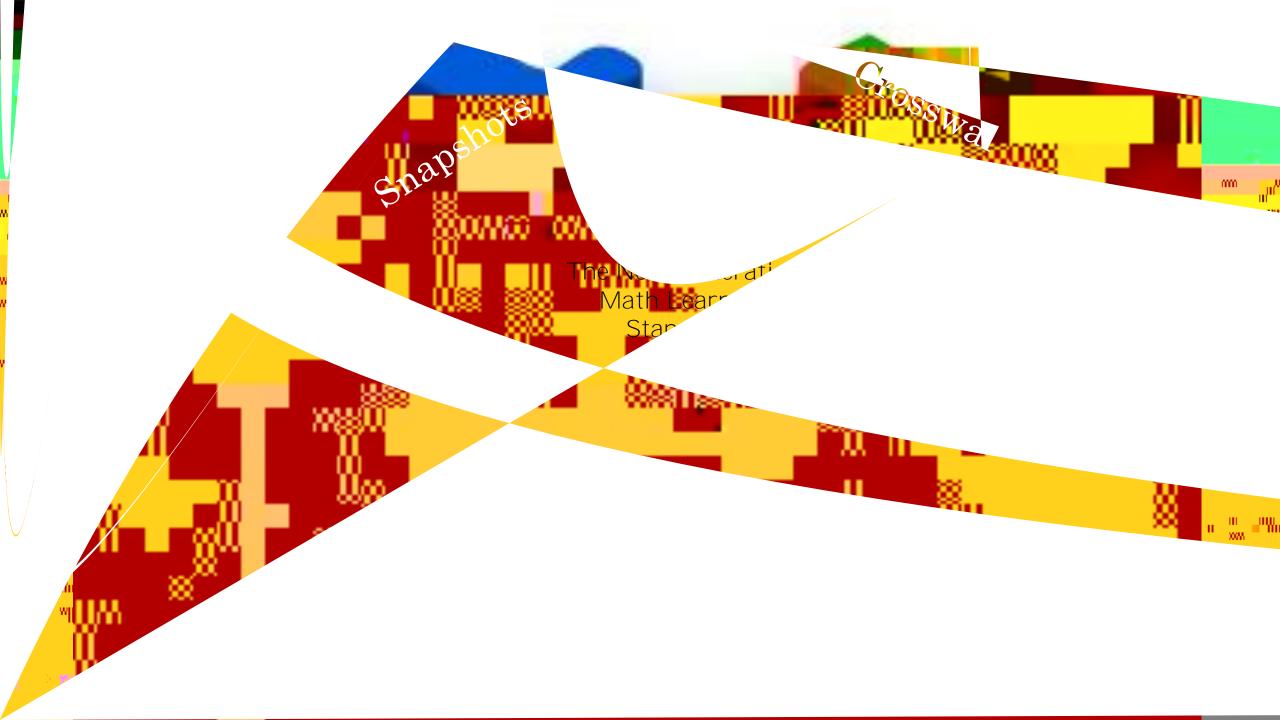
Each member of your team will use their per or pencil. """
In You may share one thought you have about the question posed.

in Conce you have shared your thought, place your pen or pencil in the contemporary and a subject of the stable of the subject of the subject

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

What Ichallenges do you for esee with these changes?



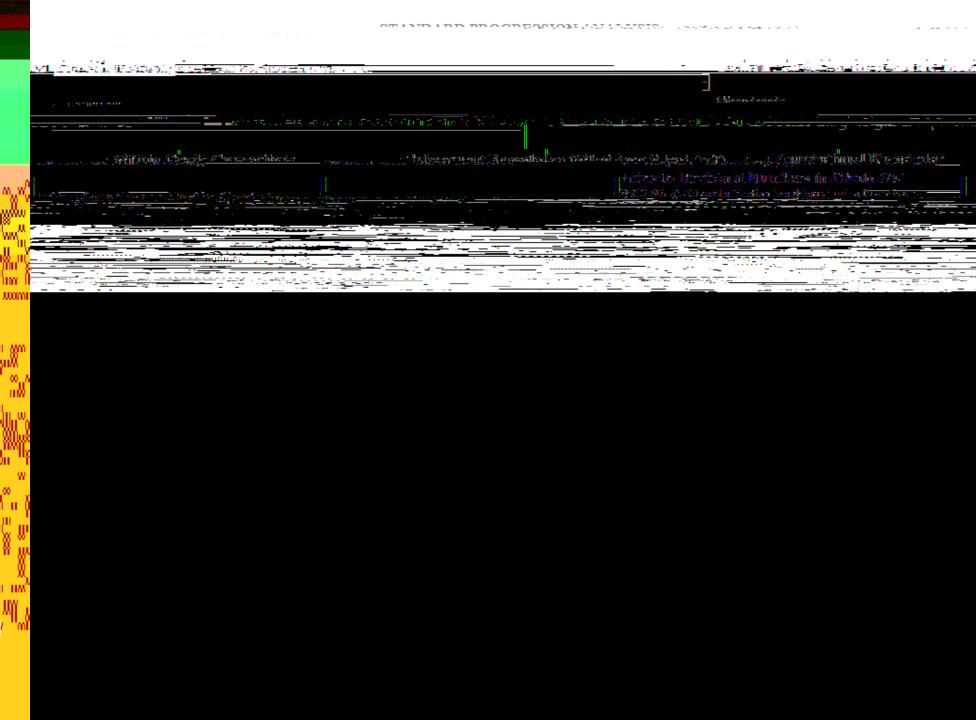


How impactful is the new standard/change with respect to our current curriculum?

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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