


SAYREVILLE MATH PARENT INFORMATION SESSION

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As we are waiting post in the chat



Clue #1
The answer is an even 2-digit number that is greater than 40.

Clue #2
The answer is 1 more than a multiple of 3.

Clue #3
There is a clue on the die.
The answer is not a multiple of 4.

Clue #4
Double 47 and eliminate that number.

Clue #5
Eliminate two numbers with this clue.
The answer is not 6 more or 6 less than a square number.

41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

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AGENDA

- ❑ The “WHY”
- ❑ Math Goals 25-26
- ❑ Math Program Flow
- ❑ Advanced Math Program (Rubric, Elements, Point Value, Timeline and Summer Assignment)
- ❑ Resources for Math Programs
- ❑ Advanced Math Courses in High School

TOPICS

- ❑ Criteria for Advanced Honors placement
- ❑ Notification/Letters of Acceptance
- ❑ Summer Assignment for accepted students

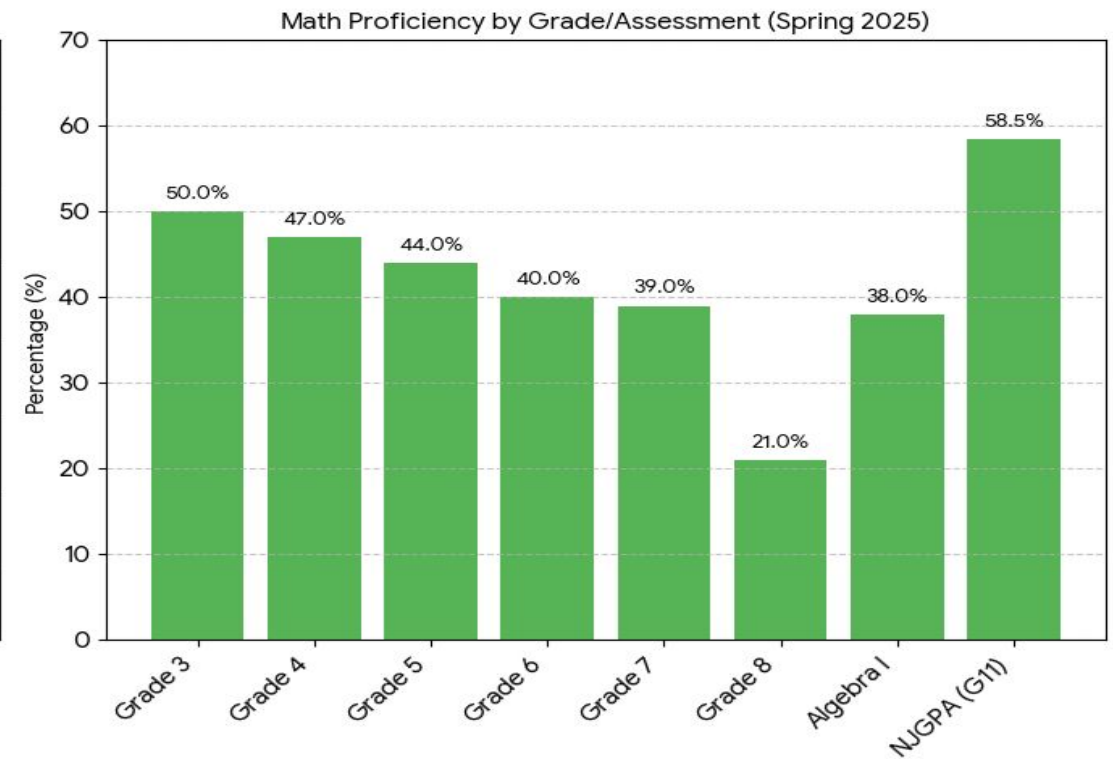
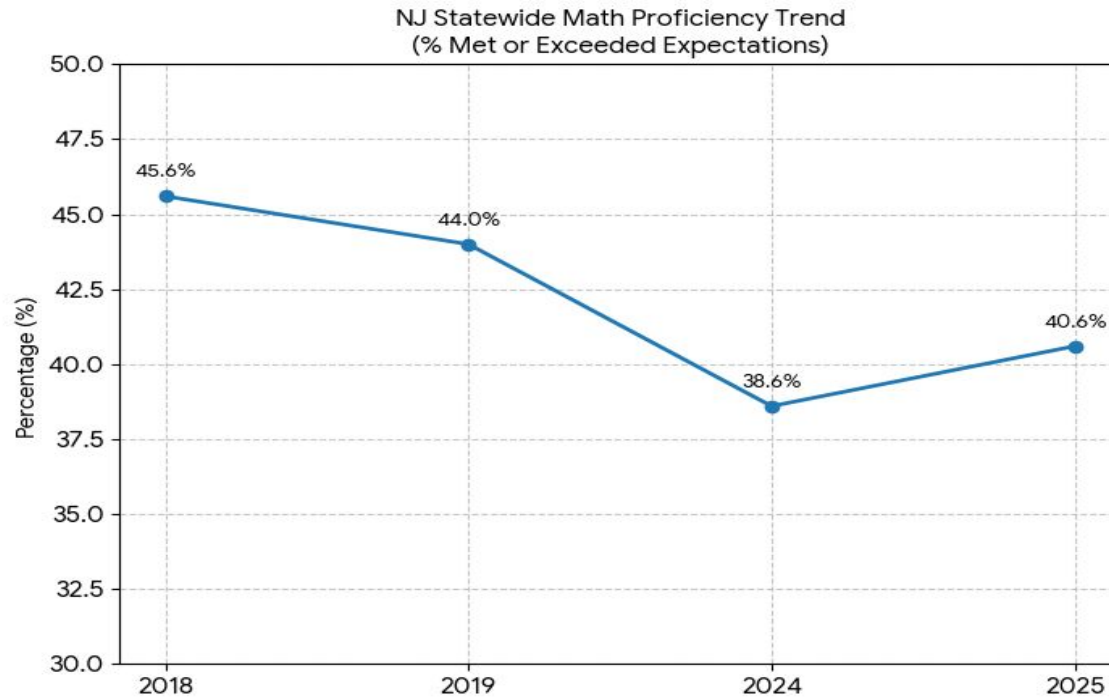
PRESENTATION

- ❑ All questions will be answered after significant parts of the presentation.
- ❑ Questions can be posted on the chat.

WHY? RESEARCH AND DATA

Statewide Math Performance Overview

The 2024–2025 New Jersey Student Learning Assessment (NJSLA) results indicate a **41% overall proficiency rate** in Mathematics, a nearly 1 percentage point increase from the previous year.

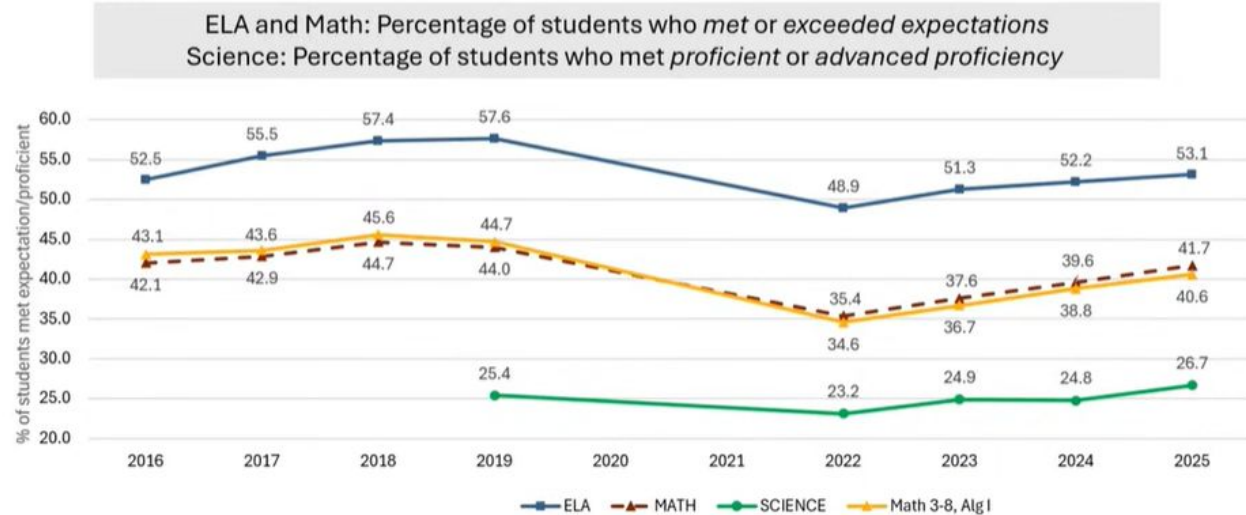


WHY? RESEARCH AND DATA

Statewide Math Performance Overview

The 2016–2025 New Jersey Student Learning Assessment (NJSLA) results indicate a **41% overall proficiency rate** in Mathematics, a nearly 1 percentage point increase from the previous year.

Assessment Results from 2016 through 2025



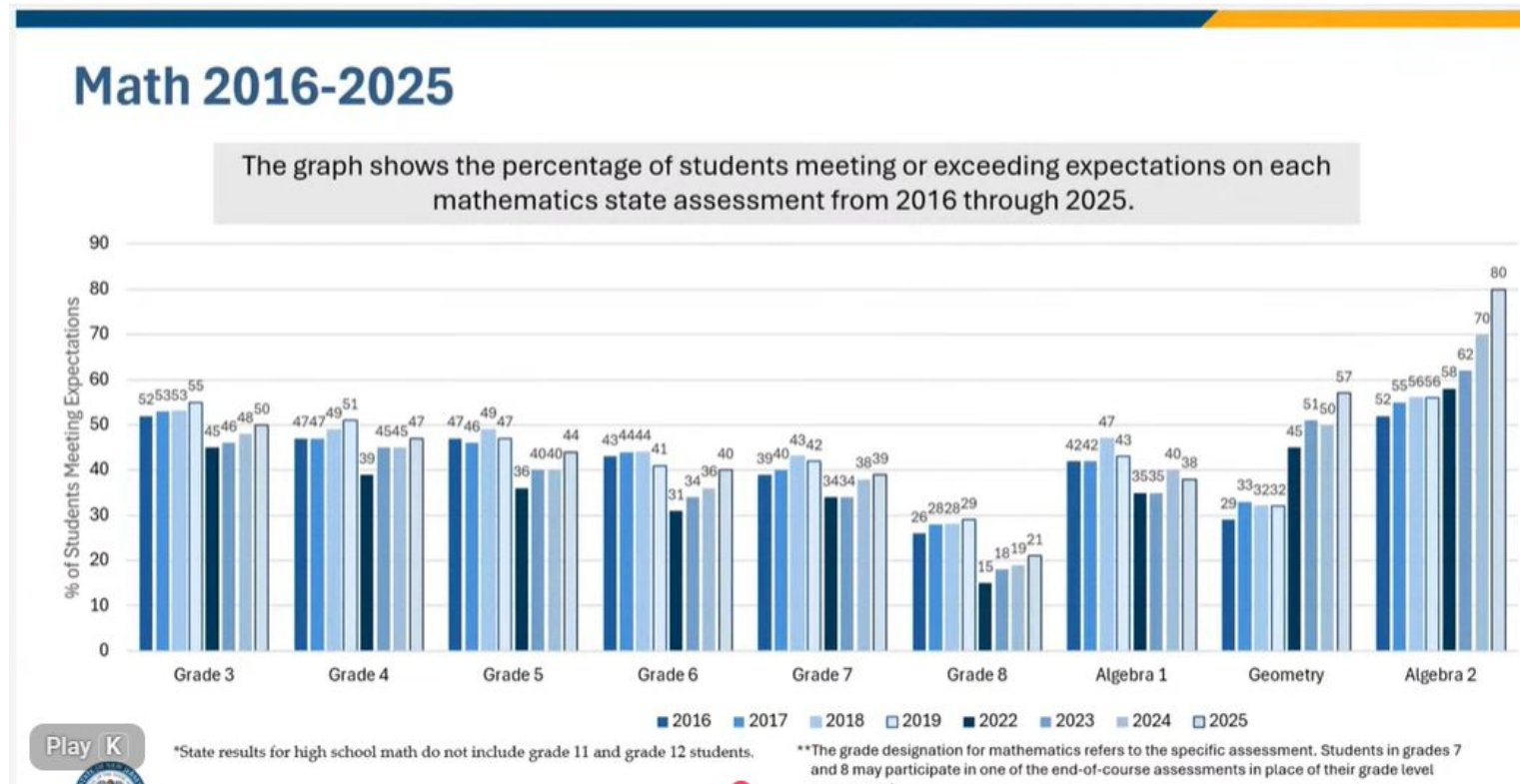
*State results for high school math do not include grade 11 and grade 12 students.



WHY? RESEARCH AND DATA

Statewide Math Performance Overview

The 2016–2025 New Jersey Student Learning Assessment (NJSLA) results indicate a **41% overall proficiency rate** in Mathematics, a nearly 1 percentage point increase from the previous year.




NJSLA - ADAPTIVE

For the 2025-26 school year, a new exam is in place, called the New Jersey Student Learning Assessments-Adaptive. The test questions vary based on how students are scoring.

The new test is being administered by Cambium Assessment, “As students progress through the test, future questions are determined based on their responses, creating a more personalized and appropriate experience for each learner,”

CONTENT EMPHASES FOR EACH GRADE



This document shows where students and teachers should spend more time, relative to other clusters, in order to meet the expectations of the 2023 New Jersey Student Learning Standards for Mathematics.

Grade 5 Mathematics: Where to Focus

Some clusters of standards were written to require greater emphasis than others. This varied emphasis is based on the depth of the mathematical ideas in the cluster, the time that they take to master, and/or their importance to future mathematics or the demands of college and career readiness. More time in these particular areas is also necessary for students to meet the Standards for Mathematical Practice. Therefore, not all content in a given grade is emphasized equally in the standards.

To say that some things have greater emphasis is not to say that anything in the Standards can be neglected or omitted in instruction.

Neglecting material will leave gaps in student skill and understanding and may leave students unprepared for the challenges of a later grade.

Students should spend the majority of their time on the major work of the grade (**M**). Supporting work (**S**) and, where appropriate, additional work (**A**) can engage students in the major work of the grade.

Major, Supporting, & Additional Clusters for Grade 5

Emphases are given at the cluster level. Refer to the New Jersey Student Learning Standards for Mathematics for the specific standards that fall within each cluster.


Highlights of Major Work in Grades K-8

Indicator	Type	Cluster Heading
5.OA.A	A	Write and interpret numerical expressions
5.OA.B	A	Analyze patterns and relationships
5.NBT.A	M	Understand the place value system
5.NBT.B	M	Perform operations with multi-digit whole numbers and with decimals to hundredths
5.NF.A	M	Use equivalent fractions as a strategy to add and subtract fractions
5.NF.B	M	Apply and extend previous understandings of multiplication and division to multiply and divide fractions
5.M.A	S	Convert like measurement units within a given measurement system
5.M.B	M	Geometric Measurement: Understand concepts of volume and relate volume to multiplication and addition
5.DLA	A	Understand and analyze data visualizations
5.DLB	S	Represent and interpret data
5.G.A	A	Graph points on the coordinate plane to solve real-world and mathematical problems
5.G.B	A	Classify two-dimensional figures into categories based on their properties

Grades	Topic
K-2	Addition and subtraction — concepts, skills, and problem solving; place value
3-5	Multiply and divide whole numbers and fractions — concepts, skills, & problem solving
6	Ratios and proportional relationships; early expressions and equations
7	Ratios and proportional relationships; arithmetic of rational numbers
8	Linear algebra and linear functions

Required Fluencies for Grade 5

5.NBT.B.5 Multiply multi-digit whole numbers using the standard algorithm



This document shows where students and teachers should spend more time, relative to other clusters, in order to meet the expectations of the 2023 New Jersey Student Learning Standards for Mathematics.

Grade 6 Mathematics: Where to Focus

Some clusters of standards were written to require greater emphasis than others. This varied emphasis is based on the depth of the mathematical ideas in the cluster, the time that they take to master, and/or their importance to future mathematics or the demands of college and career readiness. More time in these particular areas is also necessary for students to meet the Standards for Mathematical Practice. Therefore, not all content in a given grade is emphasized equally in the standards.

To say that some things have greater emphasis is not to say that anything in the Standards can be neglected or omitted in instruction.

Neglecting material will leave gaps in student skill and understanding and may leave students unprepared for the challenges of a later grade.

Students should spend the majority of their time on the major work of the grade (**M**). Supporting work (**S**) and, where appropriate, additional work (**A**) can engage students in the major work of the grade.

Major, Supporting, & Additional Clusters for Grade 6

Emphases are given at the cluster level. Refer to the New Jersey Student Learning Standards for Mathematics for the specific standards that fall within each cluster.

Highlights of Major Work in Grades K-8

Indicator	Type	Cluster Heading
6.RP.A	M	Understand ratio concepts and use ratio reasoning to solve problems
6.NS.A	M	Apply and extend previous understandings of multiplication and division to multiply and divide fractions
6.NS.B	A	Compute fluently with multi-digit numbers and find common factors and multiples
6.NS.C	M	Apply and extend previous understandings of numbers to the system of rational numbers
6.EE.A	M	Apply and extend previous understandings of arithmetic to algebraic expressions
6.EE.B	M	Reason about and solve one-variable equations and inequalities
6.EE.C	M	Represent and analyze quantitative relationships between dependent and independent variables
6.G.A	S	Solve real-world and mathematical problems involving area, surface area, and volume
6.SP.A	A	Develop understanding of statistical variability
6.SP.B	A	Summarize and describe distributions

Grades	Topic
K-2	Addition and subtraction — concepts, skills, and problem solving; place value
3-5	Multiply and divide whole numbers and fractions — concepts, skills, & problem solving
6	Ratios and proportional relationships; early expressions and equations
7	Ratios and proportional relationships; arithmetic of rational numbers
8	Linear algebra and linear functions

Required Fluencies for Grade 6

6.NS.B.2 Divide multi-digit whole numbers using the standard algorithm

6.NS.B.3 Add, subtract, multiply and divide multi-digit decimals using the standard algorithm for each operation

ADVANCED MATH HONORS PROGRAM

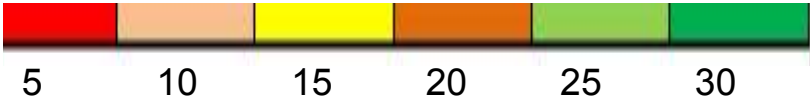
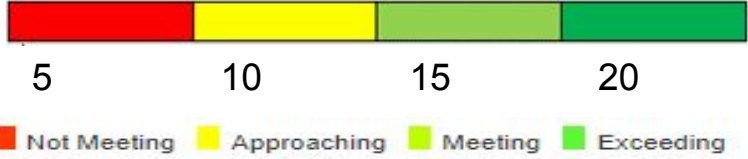

Incoming Grade 6 (Current 5th Graders)

Rubric

Advanced Honors Program in Mathematics

Elements of the Rubric

- Average of Grade 5 Form A and Grade 5 Form B Math Benchmark Scores
- Average of Grade 5 T1 and T2 Standards Based Report Card
- District Advanced Honors Mathematics Test
- NJSLA Grade 4 Math Score
- Teacher Recommendation Score

Criteria	Total points possible
<p>Average of Linkit Grade 5 Math Form A and Form B scores</p> 	30
<p>Average of T1 and T2 Grade 5 Standards-Based Report card</p> 	20
Grade 5 Teacher Recommendation Score	40
<p>NJSLA Grade 4 Math Score</p> 	60
District Math Test Score	100
Total points	250

Steps to identify students in Advanced Honors Program in Mathematics

Steps

Elements of the Rubric

1

Average of Linkit Grade 5 Form A and Form
B Math Benchmark Scores

2

NJSLA Grade 4 Math Score

3

Average of T1 and T2 Grade 5 Standards-Based Score

Students are invited to take the Honors Test

4

Teacher Recommendation Score

5

District Advanced Honors Mathematics Test

Eligible Students



Eligible students will be notified via email in the week of **May 19th, 2026**, to take the **June 1st, 2026** District Performance Test.

ACCEPTANCE LETTERS



Students who are accepted to the program will be notified via email in the week of **June 15, 2026.**

Some students transfer out of the district or get accepted into vocational schools. As the spots open, eligible students will be notified.

SUMMER ASSIGNMENT

Students accepted into the Advanced Honors Grade 6 program will have a summer assignment posted on the website.

Summer Assignment (2024-25)

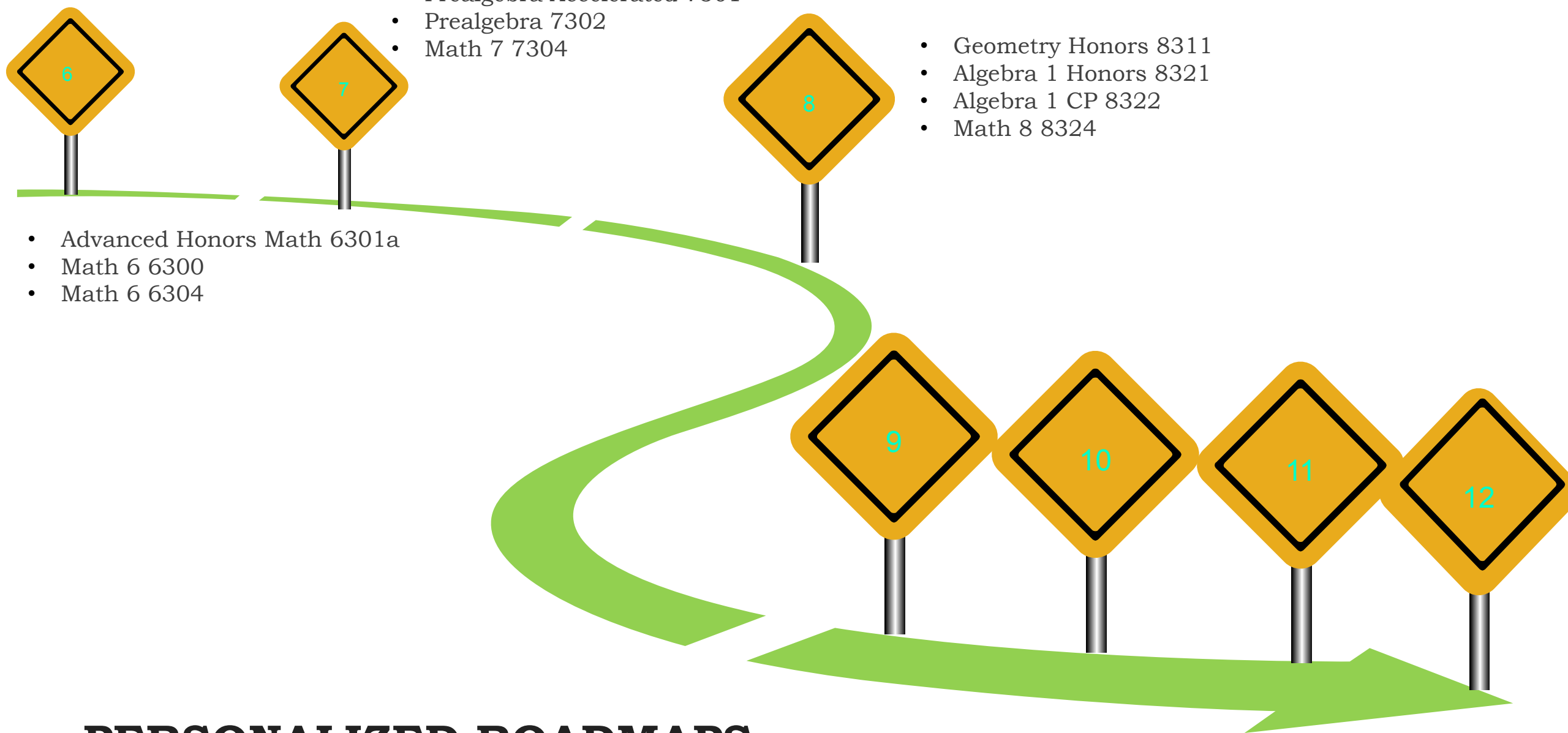
TIMELINES

1. Week of May 19, 2026, an email will be sent to see if the student can take the District Performance Test.
2. All eligible students will take the District Performance Test on June 1, 2026.
3. All accepted students selected in the Grade 6 Advanced Honors Math Class will be notified via email on June 15, 2026.

K-HS DOMAIN PROGRESSION

K	1	2	3	4	5	6	7	8	HS
Counting & Cardinality	[Black]								
Number and Operations in Base Ten						Ratio & Proportional Relationships		[Black]	
[Black]			Number & Operations - Fractions			The Number System			Number & Quantity
Operations and Algebraic Thinking						Expressions and Equations			Algebra
						[Black]			Functions
Geometry						Geometry			Geometry
Measurement									
Data Literacy						Statistics and Probability			Statistics & Probability

MATH PROGRAM FLOW



- Algebra 7 7301a
- Prealgebra Accelerated 7301
- Prealgebra 7302
- Math 7 7304

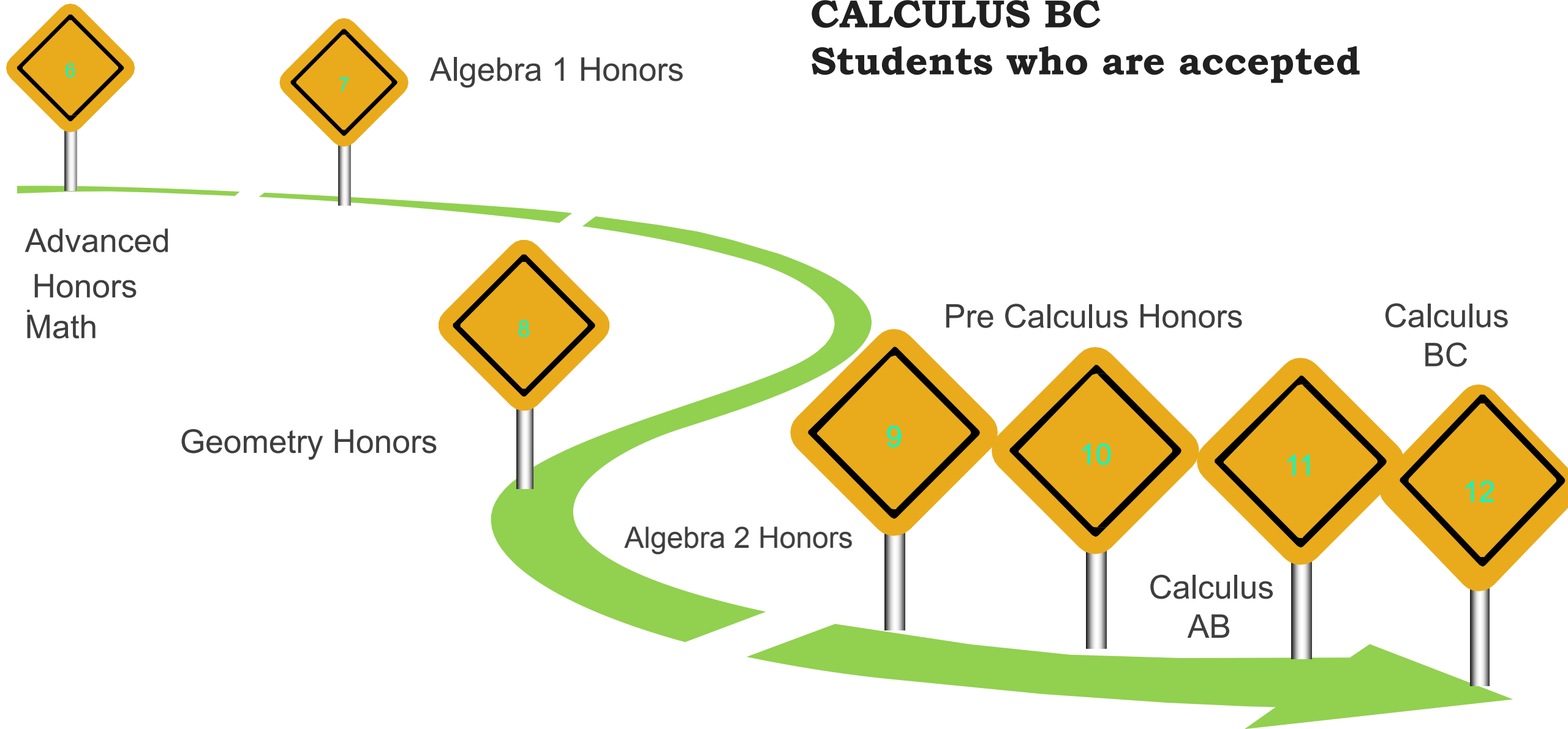
- Geometry Honors 8311
- Algebra 1 Honors 8321
- Algebra 1 CP 8322
- Math 8 8324

- Advanced Honors Math 6301a
- Math 6 6300
- Math 6 6304

PERSONALIZED ROADMAPS

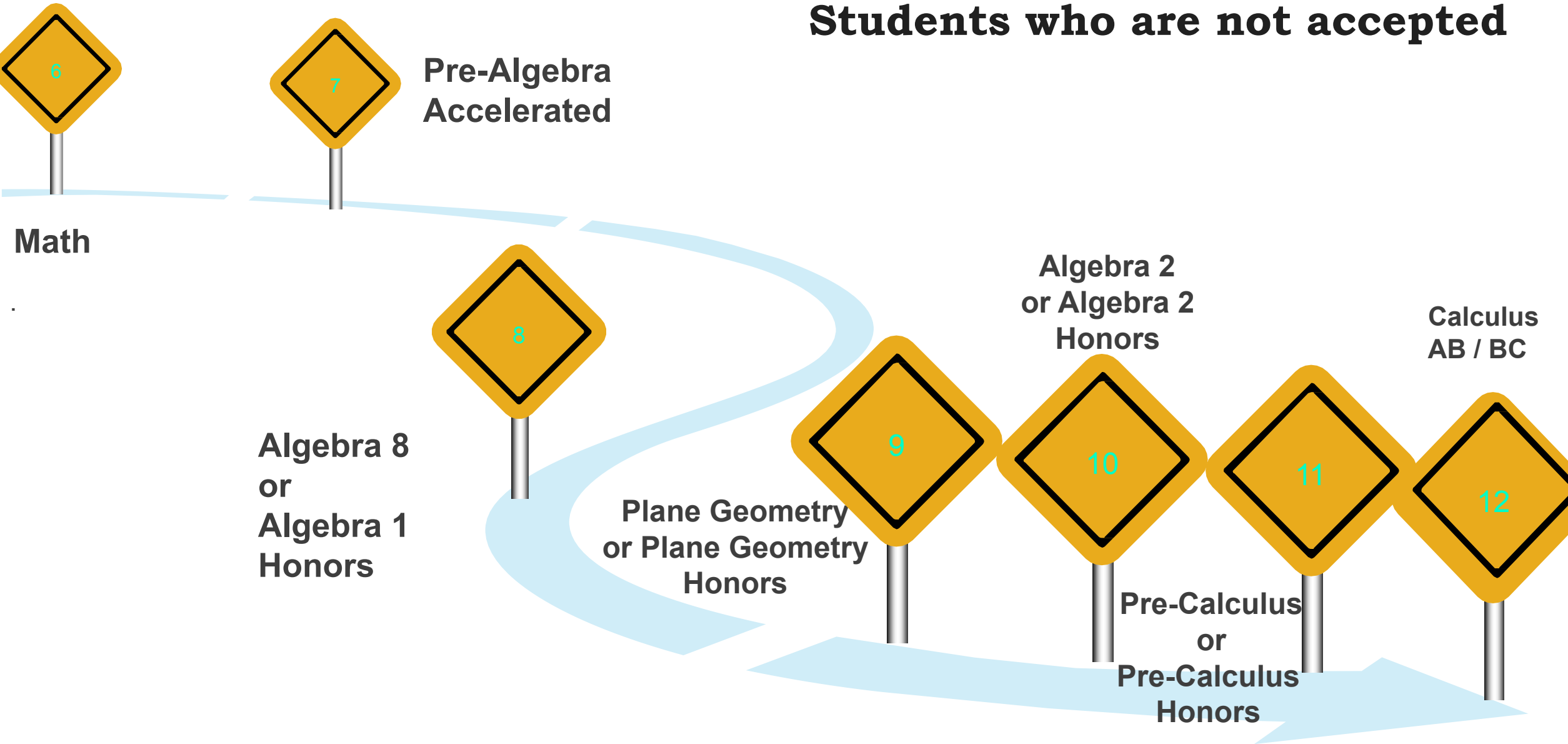
TYPICAL ROADMAP TO CALCULUS BC

Students who are accepted

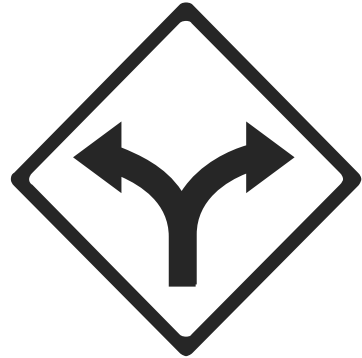


ROADMAP TO CALCULUS BC

Students who are not accepted



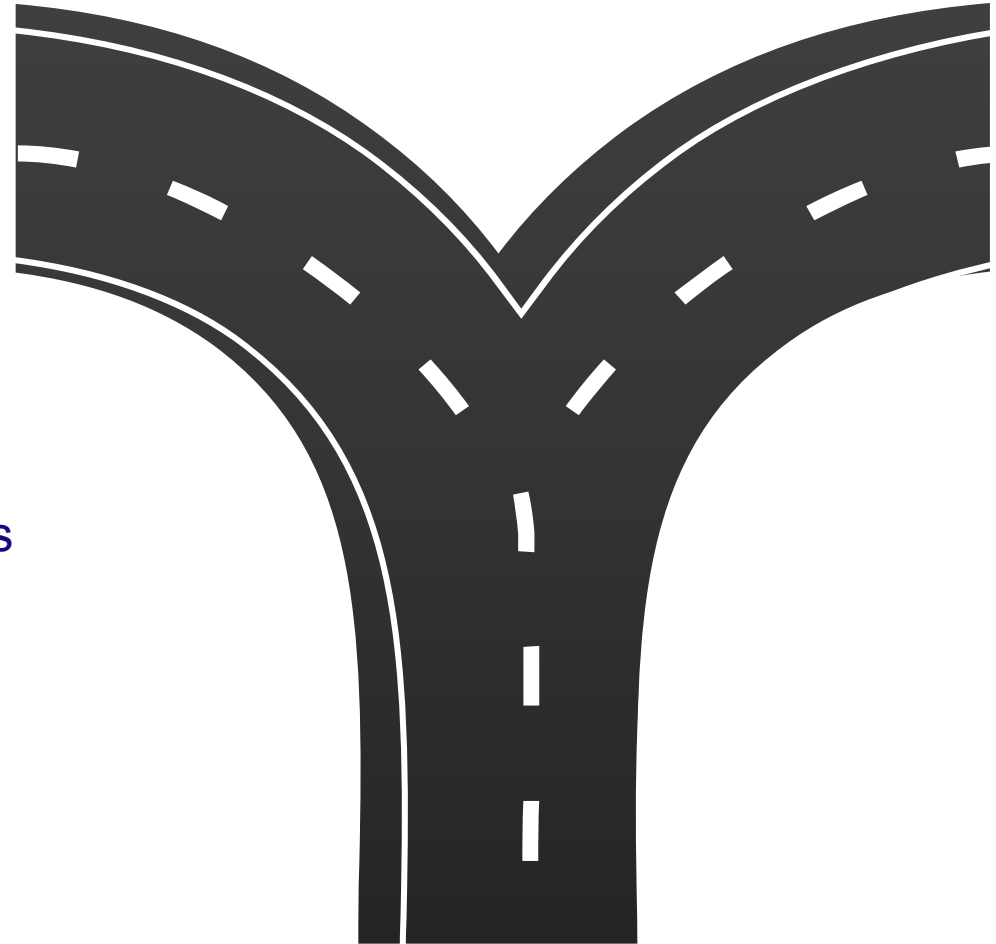
ADVANCED PLACEMENT CHOICES IN THE HIGH SCHOOL



Advanced Placement Computer Science A
Advanced Placement Computer Science Principles

Advanced Placement Statistics

Advanced Placement Calculus AB
Advanced Placement Calculus BC
Advanced Placement Precalculus

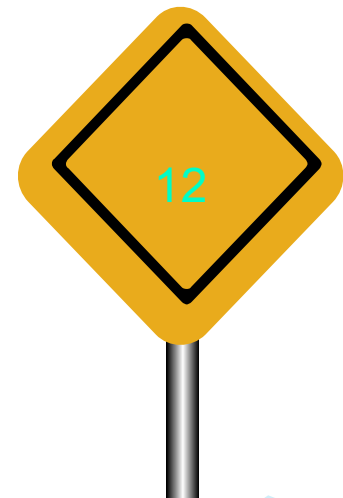
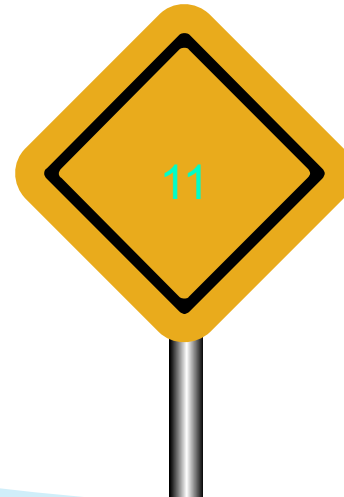




PERSONALIZED ROADMAPS

Algebra 2 CP
Algebra 2 Core
AP Precalculus
Precalculus Honors
Precalculus CP
AP Calculus BC
AP Calculus AB
Calculus Honors
AP Statistics
Statistics
Algebra 3 Trigonometry
Fundamentals of College Algebra

- Algebra 2 Honors
- Plane Geometry Honors
- Plane Geometry
- Algebra 1



RESOURCES FOR NJSLA ADAPTIVE

<https://www.nj.gov/education/standards/math/kto8contentemphases.shtml>

<https://nj.portal.cambiumast.com/families.html>

#mathislife

any questions?

