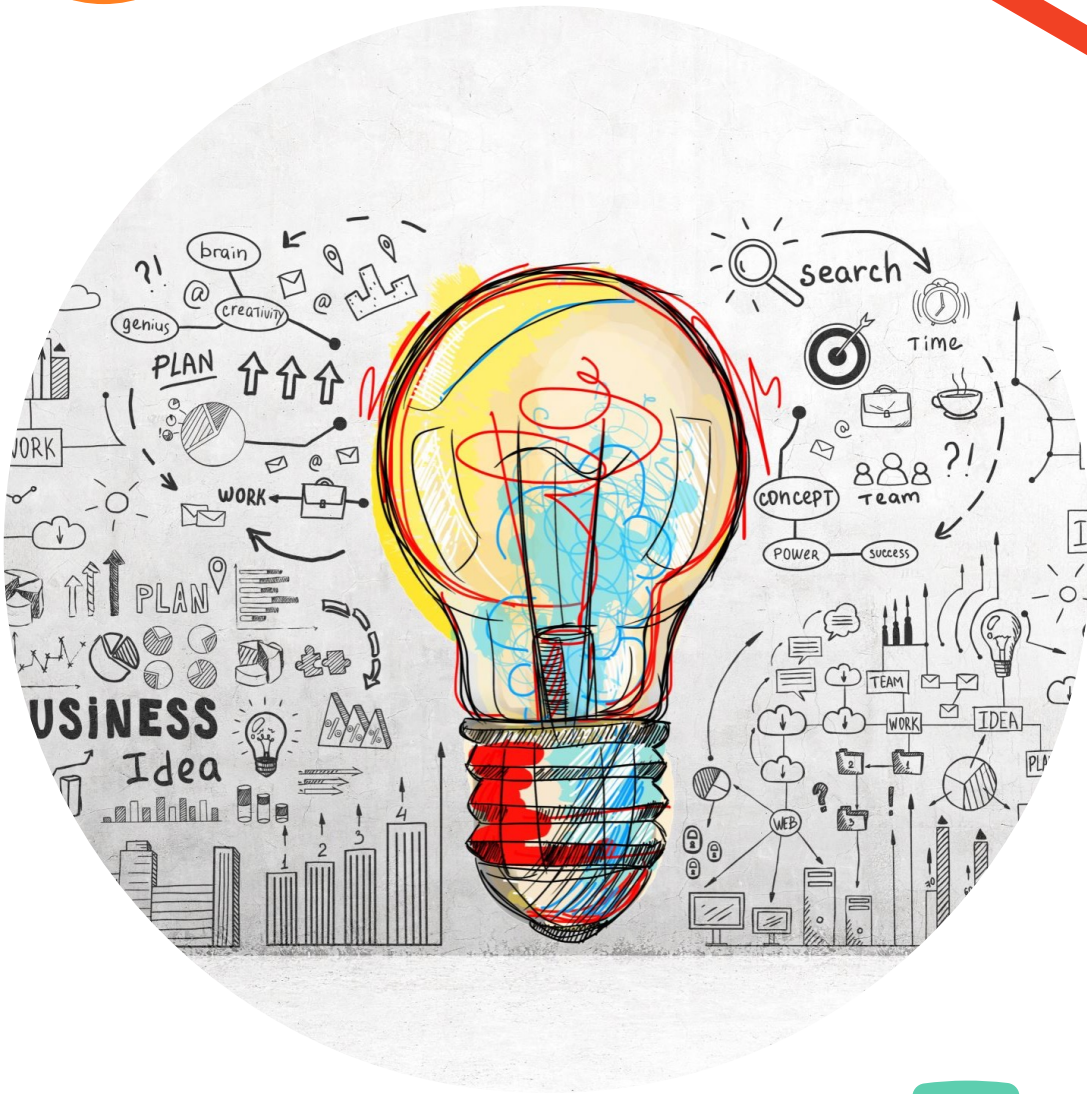
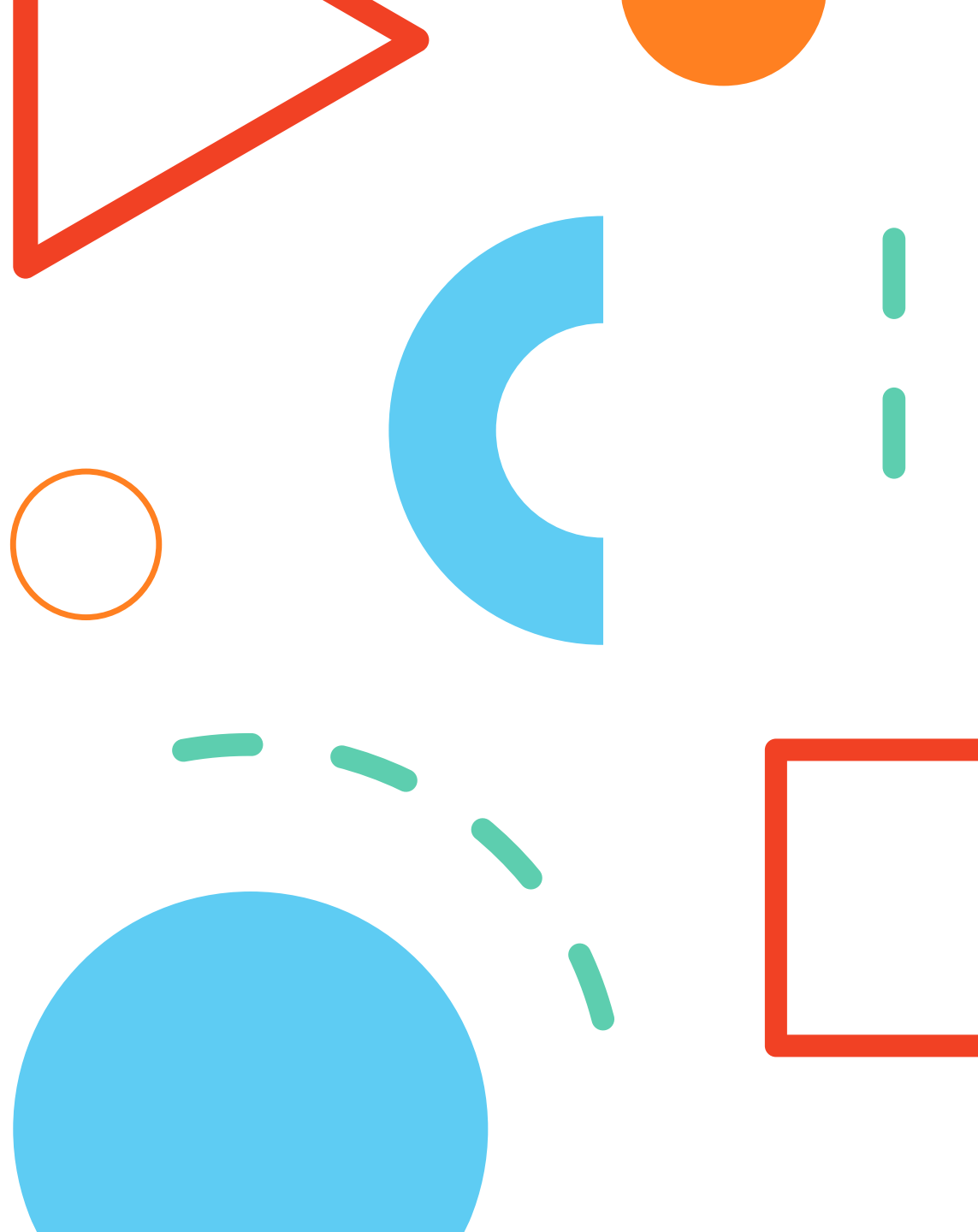


PMS Math Placement

Princeton Public Schools
March 20, 2024



Welcome!





Introductions

Kim Tew, Assistant
Superintendent of
Curriculum and
Instruction

Jason Burr,
Principal of
Princeton Middle
School

Tiffany Brennan,
Supervisor of 6-12
Mathematics and
Business Education

Dan Hardaker, K-5
Math Instructional
Coach

Sarah Moore,
Supervisor of K-5
Elementary
Education

Agenda

PMS Math Pathways and On-Ramps

Special Education, 504, and ESL
Considerations

What is LinkIt?

Rubrics and Placement

Timelines and Communication

Planning for the Future

Collective Q&A



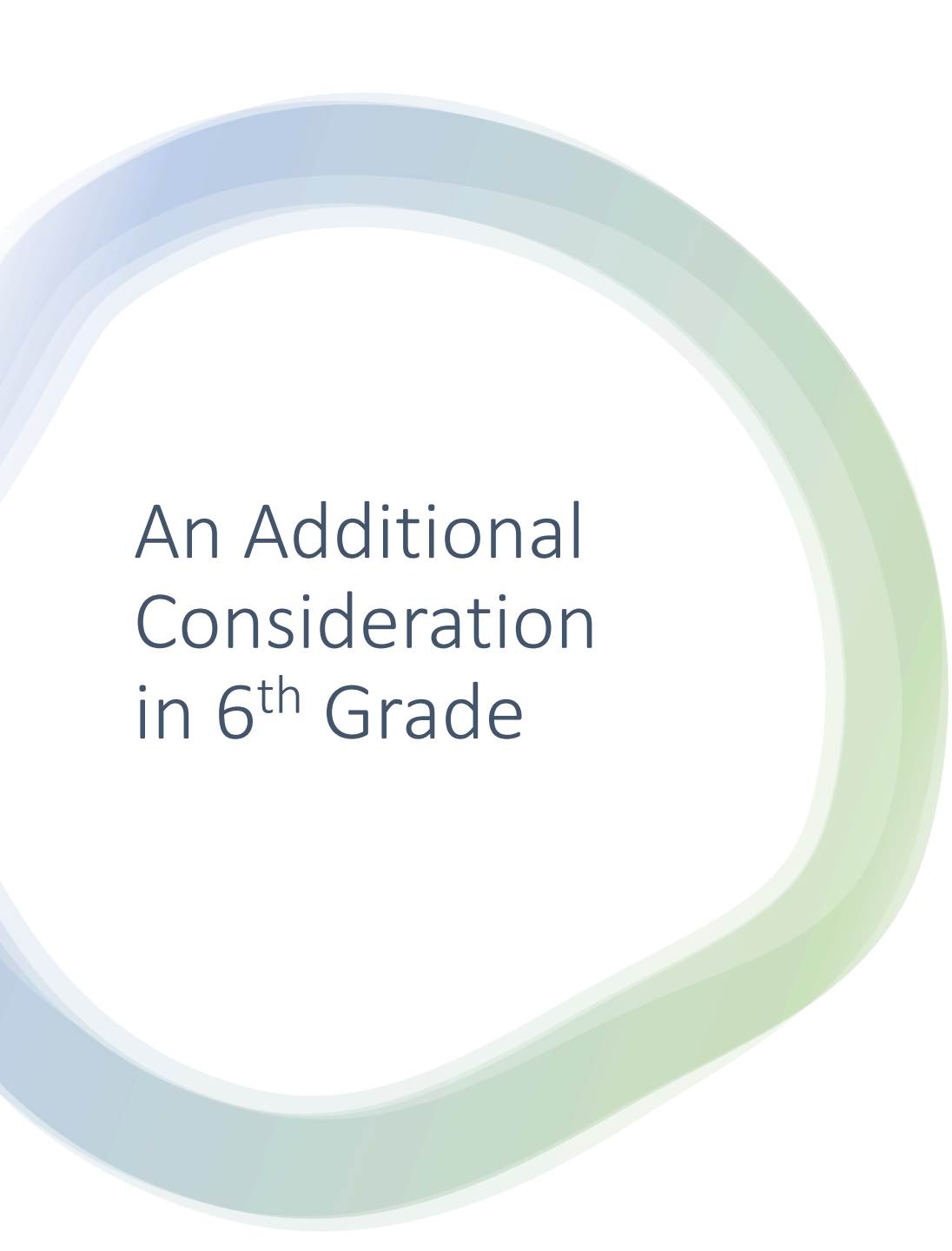
PMS Math Pathways



2023 PPS Math Program Review

The program review recommended the following:

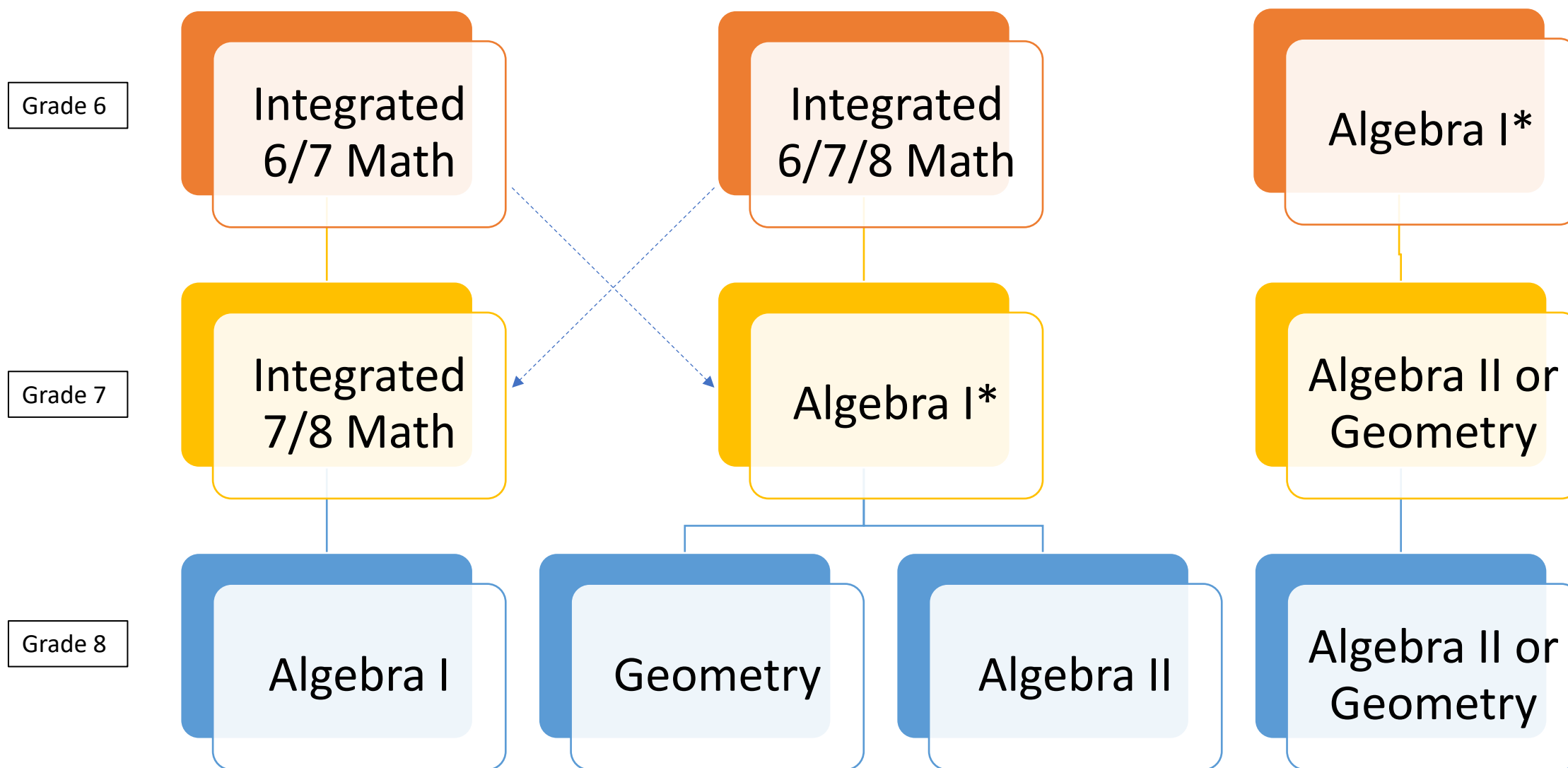
- Rename middle school math courses to clearly link their content to math standards
- Remove the word “Accelerated” as courses are not at a faster pace or inclusive of additional standards
 - “Accelerated” was in almost every course title, leading to parent and student misconceptions about content
- Revise placement test blueprints to include enhanced Depth of Knowledge (DOK) tasks and connections to the [Standards for Mathematical Practices](#)
- Rewrite math curriculum and collaborate with staff to promote fidelity and consistency
- Leverage data to inform instruction and address students’ areas for growth and areas of strength



An Additional Consideration in 6th Grade

- 6th grade data trends show some students are ready for deeper thinking and more standards, but aren't yet ready for Algebra 1
- Another layer of math will be added in 6th grade for the 2024-2025 school year.
- Course names in 6th grade have changed to more accurately reflect the course content:
 - Integrated 6/7 Math
(Current course title: Pre-Algebra Accelerated)
 - Integrated 6/7/8 Math
(New course)
 - Algebra I

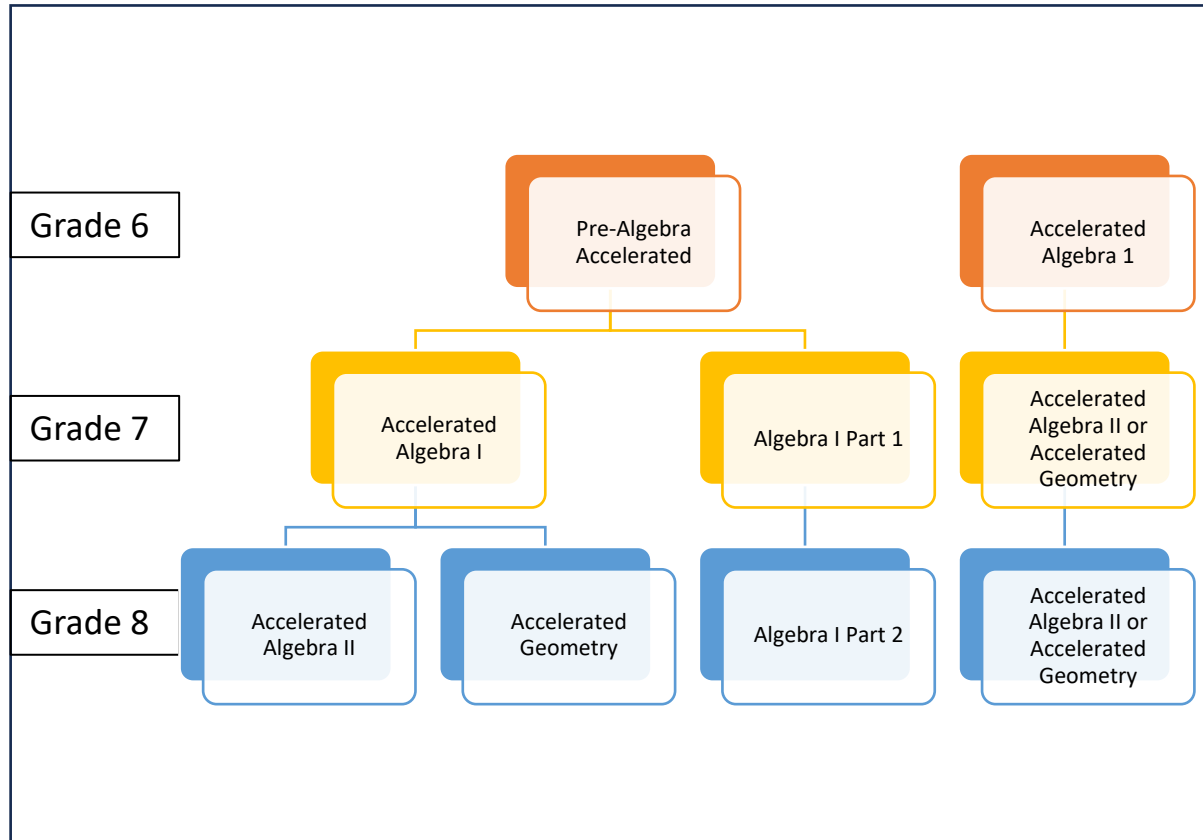
Math Course Sequence for 2024-2025



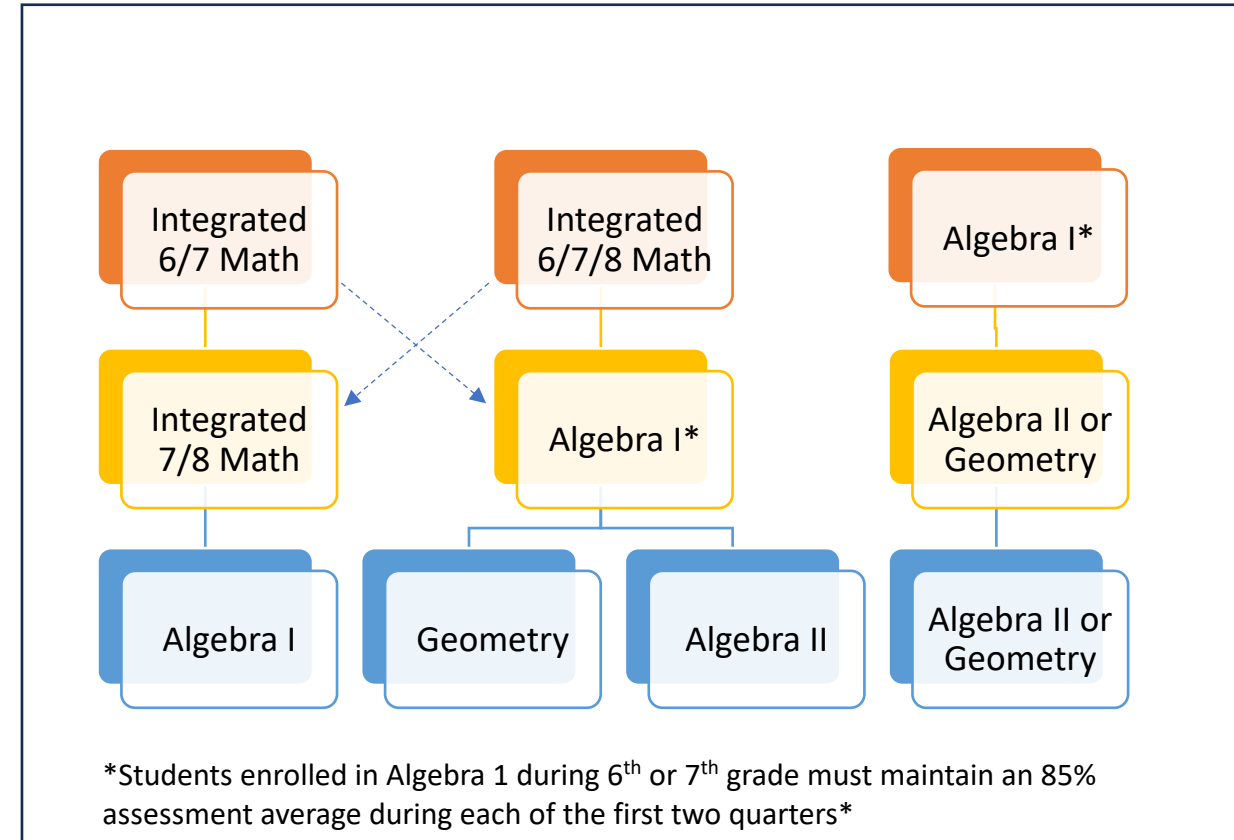
Students enrolled in Algebra 1 during 6th or 7th grade must maintain an 85% assessment average during each of the first two quarters

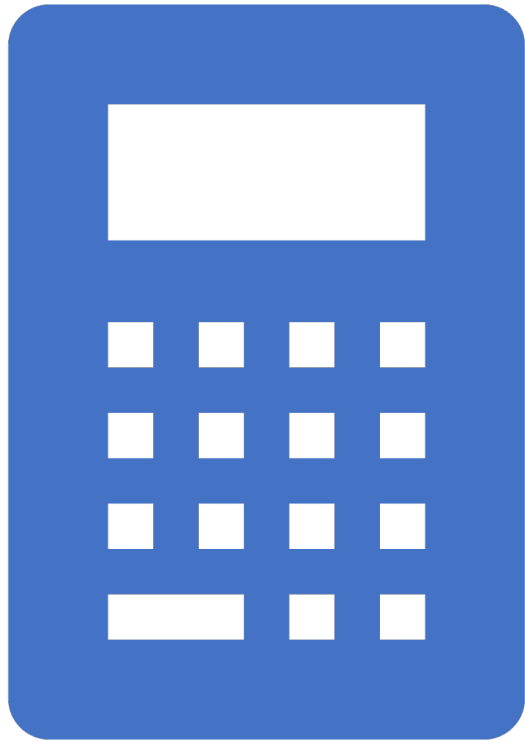
Math Course Comparison

2023-2024



2024-2025





Math Lab

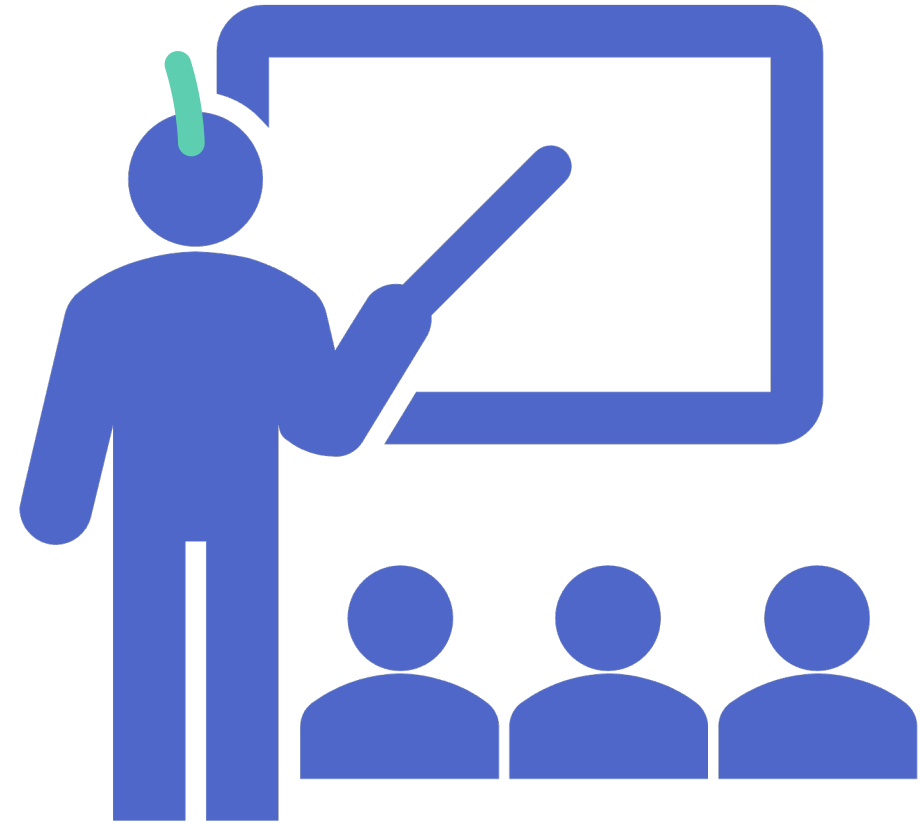
- Skills mastered in middle school math are crucial to success in all future math and science courses.
- Supports are offered for students who score under 750 on the NJSLA (Approaching Expectations, Partially Meeting Expectations, Not Meeting Expectations)
 - Special Education students – Accommodations/Modifications in their IEP; Support Class
 - Small group of students; Currently meets 4x/week for support in all subjects
 - General Education students – Math Lab
 - Small group of students; Currently meets twice/week. Focus is on individual areas of weakness in math



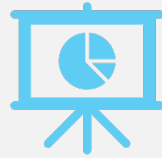
Rubric Reviews

ESL, 504, and IEP Considerations

- If your child has an IEP, you will discuss placement with your case manager to ensure their needs are being met; students will receive their modifications/accommodations throughout the placement process.
- Students with a 504 plan will receive their accommodations throughout the placement process.
- Students in ESL programming will receive accommodations throughout the placement process.



What is LinkIt?

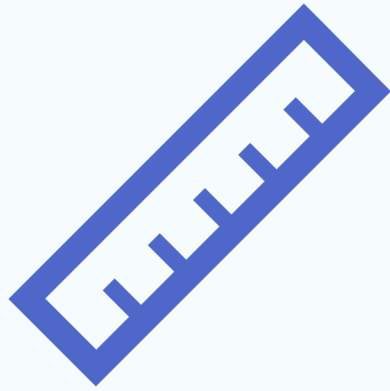


LinkIt is an online data driven platform; it provides assessments based on New Jersey State Learning Standards, data warehousing, navigator analytics, and an intervention manager system.



Students complete LinkIt benchmark assessments three times per year; these assessments measure progress and mastery of end of the year grade level standards.

Rising 6th Grade Information



[Math Placement Rubric](#)



[NJDOE Markers of Future
Success](#)

NJDOE Markers of Future Success Rubric



Sample Rubric for Important Markers of Future Success

This rubric represents just three criteria a teacher might use to get a rough idea of how a student might perform in class. When these criteria, or others like them, are used in conjunction with other readily available information such as current grades and test scores, and grades from prior years, they can help a teacher set ambitious and achievable learning targets for students. Teachers may use this rubric as presented here or modify to meet their own requirements.

Criterion	Level 4	Level 3	Level 2	Level 1
Active Participant	Always prepared. Engaged in all of the learning process	Mostly prepared. Engaged in most of the learning process	Sometimes prepared. Engaged in some of the learning process	Rarely prepared. Engaged in little or none of the learning process
Academic Independence	Consistently demonstrates intellectual curiosity. Consistently self-motivated and independent	Frequently demonstrates intellectual curiosity. Usually self-motivated and independent	Sometimes demonstrates intellectual curiosity. Sometimes self-motivated and independent	Rarely demonstrates intellectual curiosity. Rarely or never self-motivated, frequently depends on prompting and/or teacher assistance
Class Attendance	Never absent	Rarely absent	Sometimes absent	Frequently absent

Math Placement Rubric

Student Name: _____

School: _____

Teacher: _____

5th to 6th Grade Math Placement Rubric

1. LinkIt Form C

Grade	Not Meeting	Partially meeting	Approaching/ Bubble	Meeting	Exceeding
Points	0	1	2	3	4

Points: _____

2. Middle School Math Aptitude Assessment

Grade	Not Meeting	Partially meeting	Approaching/ Bubble	Meeting	Exceeding
Points	0	1	2	3	4

Points: _____

3. Markers for Success

Grade	Does Not Yet Meet Expectations	Partially Meets Expectations	Approaching Expectations	Meets Expectations	Exceeds Expectation
	Student does not demonstrate mastery of grade-level expectations, never engaging in the outlined skills.	Student demonstrates partial mastery of grade-level expectations, rarely engaging in the outlined skills.	Student inconsistently demonstrates mastery or is otherwise approaching mastery of grade-level expectations of the outlined skills.	Student consistently meets grade-level expectations of the outlined skills.	Student consistently exceeds grade-level expectation of the outlined skills.
Points	0	1	2	3	4

Points: _____

4. Open-ended tasks tied to Mathematical Practices and DOK

Grade	Not Meeting	Partially Meeting	Approaching	Meeting	Exceeding
	Provided None of the Following: Mathematical evidence, correct solution, explanation to justify thinking, showed work	Provided One out of Four for the Following: Mathematical evidence, correct solution, explanation to justify thinking, showed work	Provided Two out of Four for the Following: Mathematical evidence, correct solution, explanation to justify thinking, showed work	Provided Three out of Four for the Following: Mathematical evidence, correct solution, explanation to justify thinking, showed work	Provided All of the Following: Mathematical evidence, correct solution, explanation to justify thinking, showed work
Points	0	1	2	3	4

Points: _____

Points/Placement:

0-14: Students will be placed into Integrated 6/7 math course

15-16: Students will be placed into Integrated 6/7/8 math course or Algebra 1 (see note below)

Total Points: _____

***Note:** Students who score 15-16 on the rubric will sit for the Algebra Aptitude Assessment. If they score Exceeding on the Algebra Aptitude Assessment they will then be placed into Algebra 1 as a sixth grade student. If a student scores Meeting on the Algebra Aptitude Assessment they can be waived into the course.




Points/Placement:

0-14: Students will be placed into Integrated 6/7 math course

15-16: Students will be placed into Integrated 6/7/8 math course or Algebra 1
(see note below)

***Note:** Students who score 15-16 on the rubric will sit for the Algebra Aptitude Assessment. If they score Exceeding on the Algebra Aptitude Assessment they will then be placed into Algebra 1 as a sixth grade student. If a student scores Meeting on the Algebra Aptitude Assessment they can be waived into the course.



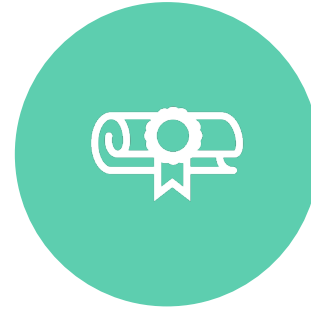
Rising 6th Grade Timelines



MAY 6TH: END OF YEAR (EOY)
TESTING WINDOW
OPENS FOR LINKIT



BY MAY 24TH: LINKIT FORM C
ASSESSMENTS, OPEN ENDED
TASKS, AND MIDDLE SCHOOL
MATH APTITUDE ASSESSMENTS
WILL BE COMPLETED WITH 5TH
GRADE STUDENTS



MAY 28TH-MAY31ST:
ALGEBRA APTITUDE
ASSESSMENTS WILL BE
GIVEN TO STUDENTS WHO
QUALIFY (BASED ON
DISCUSSED RUBRIC)***



JUNE 7TH: PLACEMENTS
WILL BE REVIEWED, AND
LETTERS WILL BE SENT OUT
FOR FALL PLACEMENT

***If students are not in attendance for this assessment at the end of the year, they will need to attend summer placement testing in late August

Rising 7th and 8th Grade Information



[Rubric for Students Exiting
Pre-Algebra Accelerated](#)



[Rubric for Students Exiting
Algebra Accelerated](#)



[NJDOE Markers of Future
Success](#)

Math Placement Rubric for Exiting Pre-Algebra Accelerated Students (6th grade)

PreAlgebra Accelerated to 7th Grade Math Placement Rubric

1. LinkIt Form C

Grade	Not Meeting	Partially meeting	Approaching	Bubble/Meeting	Exceeding
Points	0	1	2	3	4

Points: _____

2. Algebra Aptitude Assessment

Grade	Not Meeting	Partially meeting	Approaching	Bubble/Meeting	Exceeding
Points	0	1	2	3	4

Points: _____

3. Markers for Success

Grade	Does Not Yet Meet Expectations	Partially meets Expectations	Approaching Meeting Expectations	Meets Expectations	Exceeds Expectation
	Student does not demonstrate mastery of grade-level expectations, never engaging in the outlined skills.	Student demonstrates partial mastery of grade-level expectations, rarely engaging in the outlined skills.	Student inconsistently demonstrates mastery or is otherwise approaching mastery of grade-level expectations of the outlined skills.	Student consistently meets grade-level expectations of the outlined skills.	Student consistently exceeds grade-level expectation of the outlined skills.
Points	0	1	2	3	4

4. Average of Four Open-ended Response Assessments

Percentage	$x < 80\%$	$80\% \leq x < 87\%$	$87\% \leq x < 94\%$	$x \geq 94\%+$
Points	1	2	3	4

Points/Placement:

15-16 pts: Students will be placed into Algebra 1

1-14 pts: Students will be placed into Integrated Math 7/8

***Note: Students who score *Exceeding* on the Algebra Aptitude Assessment can be waived into Algebra 1 per family request.**

Total Points: _____

Math Placement Rubric for Students Exiting Accelerated Algebra (6th or 7th grade)

Algebra Accelerated to Geometry/Alg 2 Rubric

1. LinkIt Form C

Grade	Not Meeting	Partially meeting	Approaching	Bubble/Meeting	Exceeding
Points	0	1	2	3	4

Points: _____

2. Algebra 2 Aptitude Assessment

Grade	Not Meeting	Partially meeting	Approaching	Bubble/Meeting	Exceeding
Points	0	1	2	3	4

Points: _____

3. Markers for Success

Grade	Does Not Yet Meet Expectations	Partially meets Expectations	Approaching Meeting Expectations	Meets Expectations	Exceeds Expectation
	Student does not demonstrate mastery of grade-level expectations, never engaging in the outlined skills.	Student demonstrates partial mastery of grade-level expectations, rarely engaging in the outlined skills.	Student inconsistently demonstrates mastery or is otherwise approaching mastery of grade-level expectations of the outlined skills.	Student consistently meets grade-level expectations of the outlined skills.	Student consistently exceeds grade-level expectation of the outlined skills.
Points	0	1	2	3	4

4. In-class Assessment Average

Percentage	< 80%	80-86%	87-94%	95%+
Points	1	2	3	4

Points/Placement:

14-16 points: Students will be placed into Algebra 2

1-13 points: Students will be placed into Geometry

***Note: Students who score *Exceeding* or higher on the Algebra 2 Aptitude Assessment can be waived into Algebra 2 per family request.**

Total Points: _____

Exceptions

- Students who have successfully completed Algebra, Part 1 in 7th grade will move to Algebra 1
- 7th grade students who have successfully completed Algebra 2 will move to Geometry

Rising 7th and 8th Grade Timelines



ONGOING

RISING 7TH GRADE
OPEN-ENDED
RESPONSE
ASSESSMENTS




MAY 6TH-24TH

END-OF-YEAR
ASSESSMENT WINDOW



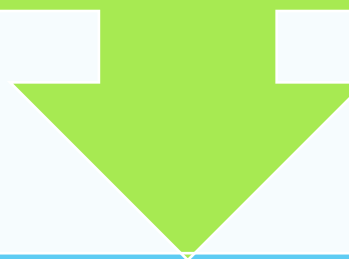
JUNE 7TH

FALL PLACEMENT LETTERS WILL BE
SENT



The Importance of Middle School Math Skills

It is important to develop an in-depth, strong foundation of these skills to be successful in later math courses and on college assessments



The bulk of concepts students need to know for SAT and ACT exams come from:

Grades 6-8
Math
Standards

Algebra I

Algebra II

Math Progression

11th/12th grade electives:

Intro to Stats/Data Analysis
Discrete Math
AP Statistics

PreCalculus

Applications & Modeling
Regular
Accelerated.

Geometry

Regular
Accelerated

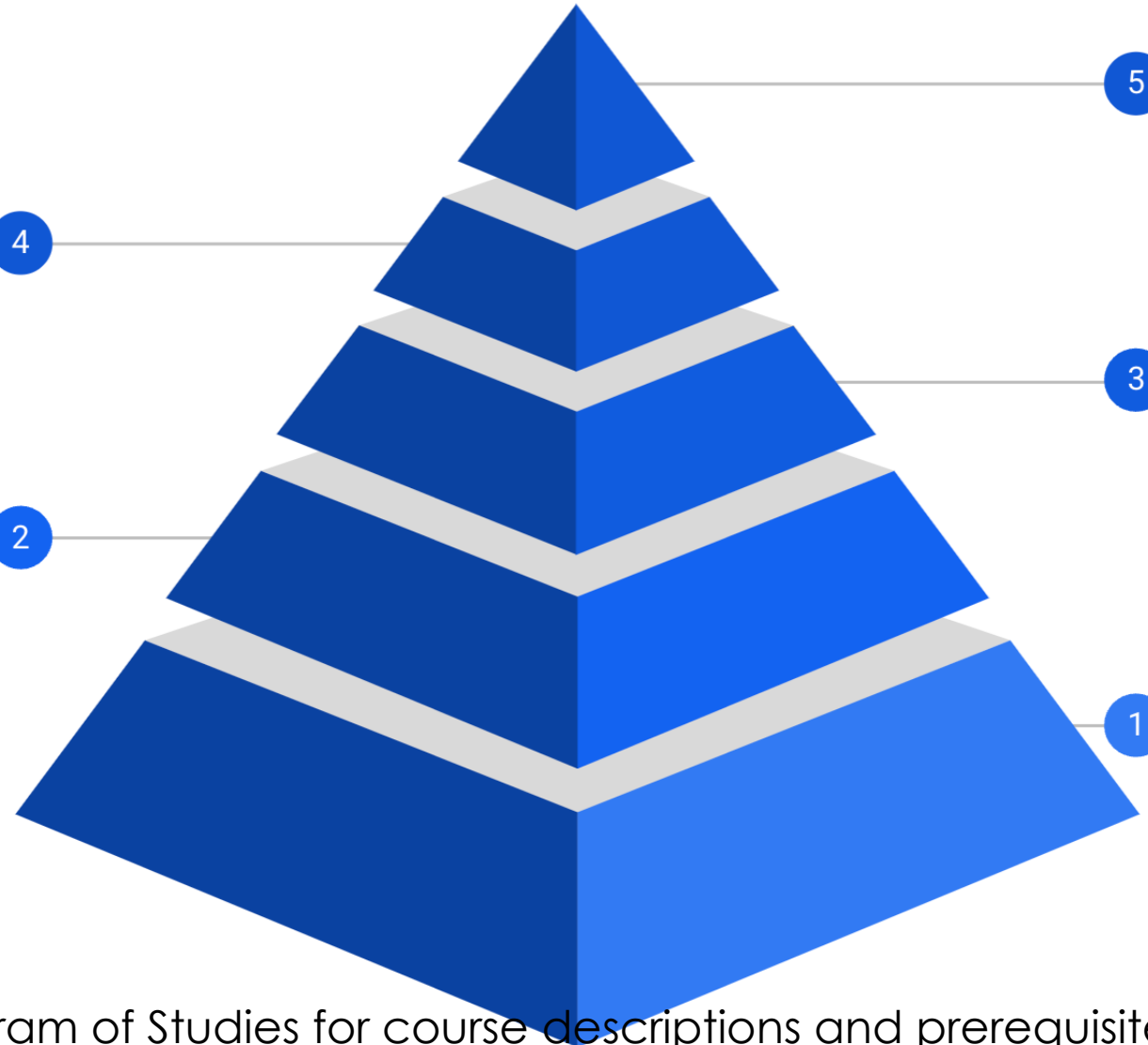
Calculus

Regular
AP Calc AB
AP Calc BC
Multivariable Calculus

Algebra 2

Elements
Regular
Accelerated

Algebra 1



Refer to the PHS Program of Studies for course descriptions and prerequisite/qualifying criteria



Questions?

Please share your questions in the Q&A box at the bottom of your screen!

Next Steps



- The slide deck and a recording of this webinar will be available on the district website
- Points of contact:
 - Rising 6th grade: Sarah Moore;
sarahmoore@princetonk12.org
 - Rising 7th and 8th grade: Tiffany Brennan;
tiffanybrennan@princetonk12.org

Thank you for your time and partnership!