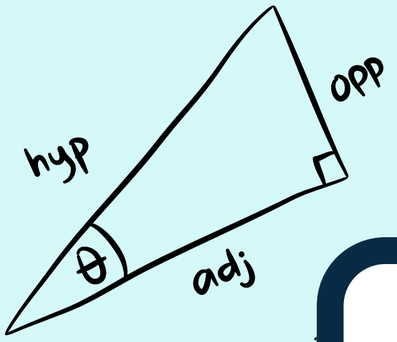
PMS MATH PLACEMENT NIGHT

Princeton Public Schools
March 19, 2025



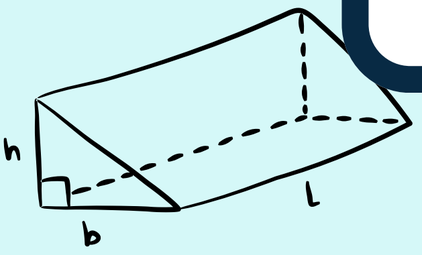
$V = \pi r^2 h$

$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$

$\sin(\theta) =$

$a = \frac{V_f - V}{t}$

$= mx + b$



$V = \frac{1}{2}bhL$

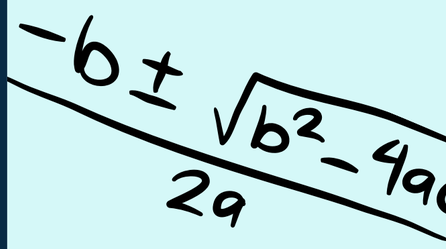
$\frac{x}{a} + \frac{y}{b} = 1$

$ax^2 + bx + c = 0$

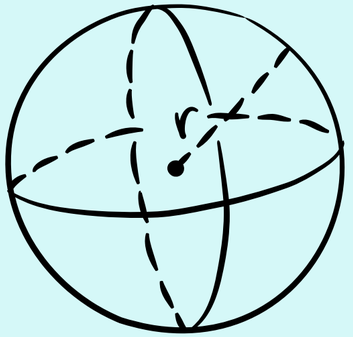
$V = \frac{4}{3}\pi r^3$

INTRODUCTIONS

- Kim Tew, Assistant Superintendent of Curriculum and Instruction
- Tiffany Brennan, 6-12 Supervisor of Mathematics and Business Education
- Sarah Moore, Supervisor of Elementary Education
- Jason Burr, Principal of Princeton Middle School



$y = mx + b$



$V = \frac{4}{3}\pi r^3$

AGENDA

- PMS Math Pathways and Onramps
- Special Education, 504, and ESL
- What is LinkIt?
- Rubrics and Placement
- Timelines and Communications
- Planning for the Future
- Q & A

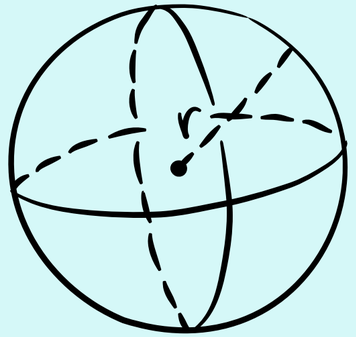
PPS MATH PROGRAM REVIEW

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

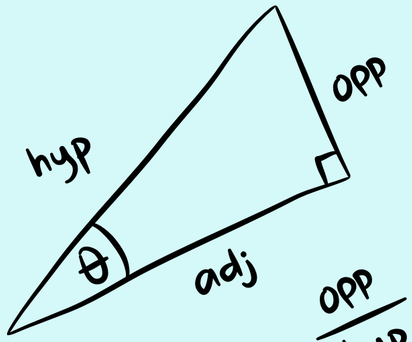
$$\frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

$$y = mx + b$$



$$V = \frac{4}{3}\pi r^3$$

PMS Math Pathways



$\sin(\theta) = \frac{opp}{hyp}$

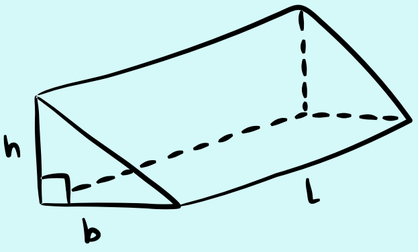
$V = lwh$

$V = \pi r^2 h$

$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$

$a = \frac{V_f - V_i}{t}$

$y = mx + b$



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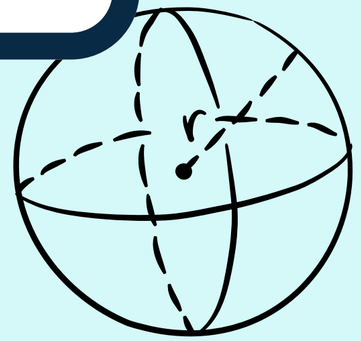

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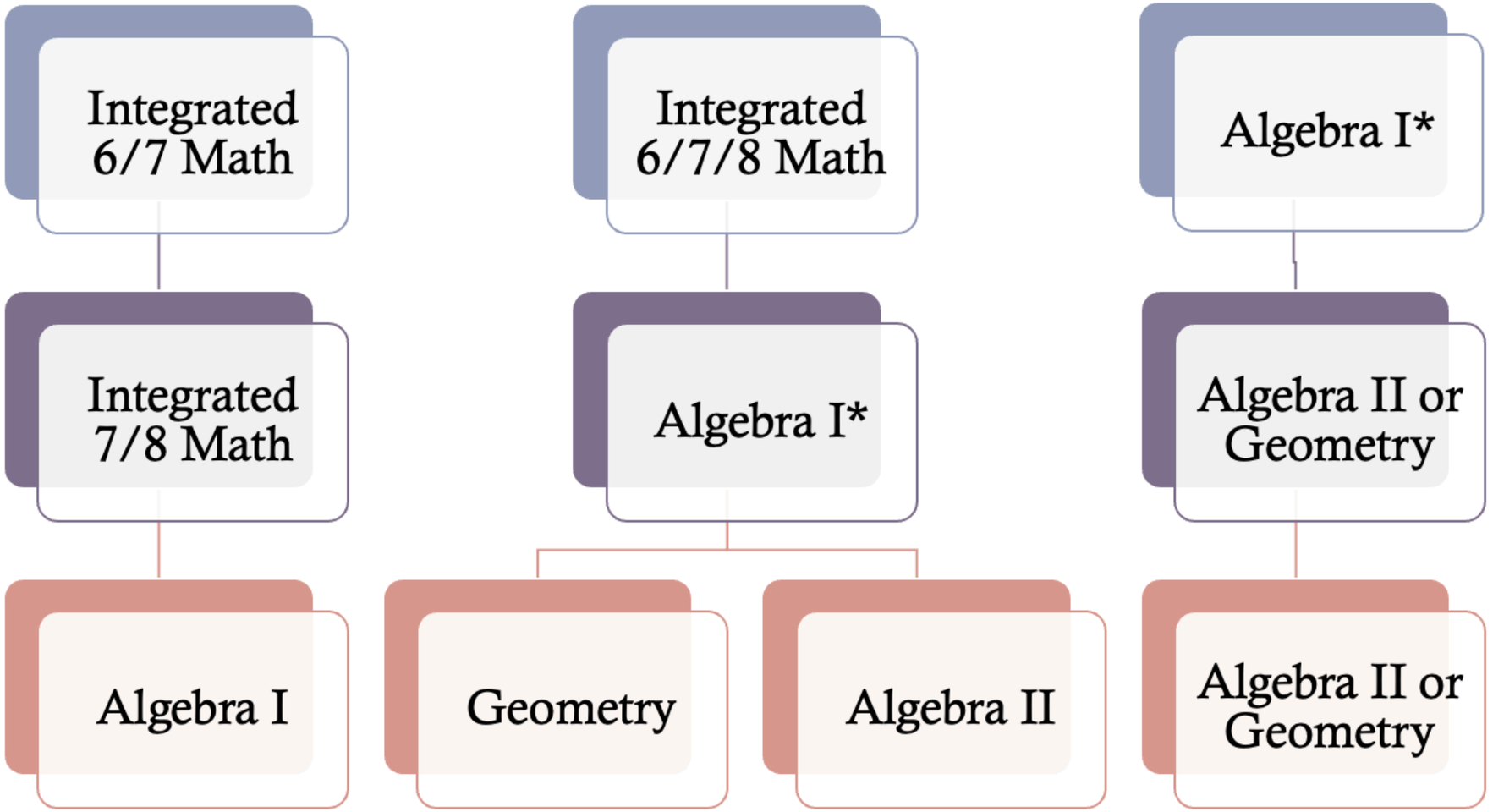
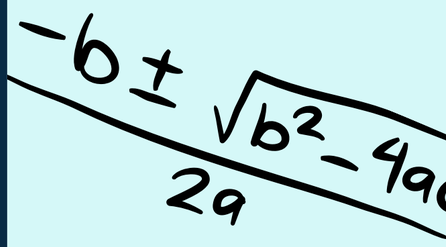
Math Course Sequence for 2025-2026



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



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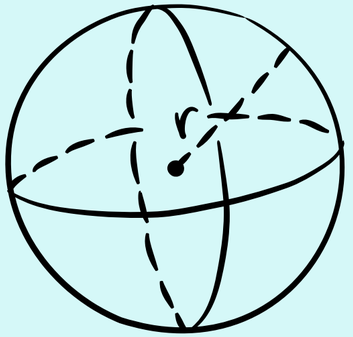

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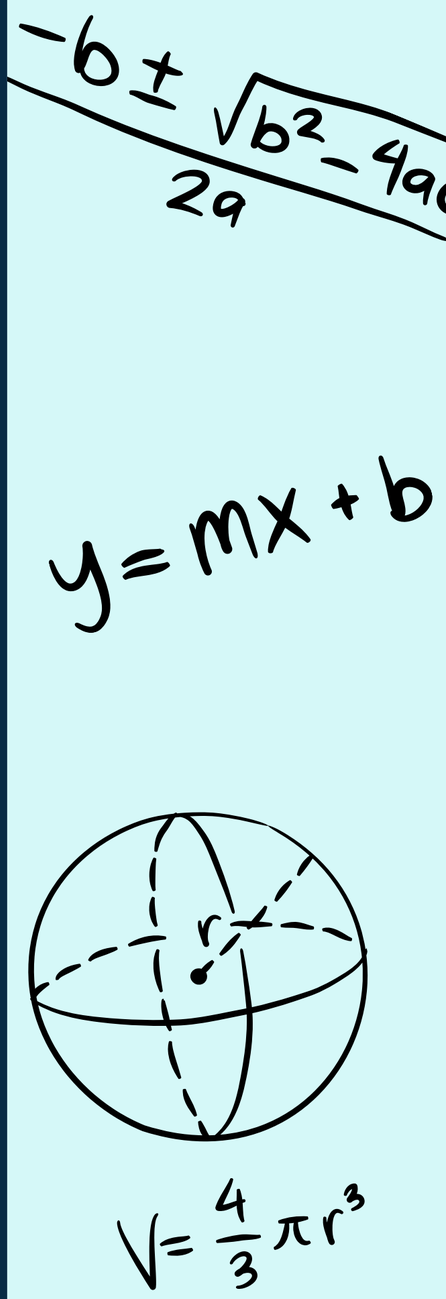
Math Lab

- 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;
  - Prior: support class with small group of students that meets 4x/week for support in all subject areas
  - Current: support class 2/week for math, 2x/week for ELA to focus on individual areas of weakness in each subject
- General Education students - Math Lab
  - Small group of students; Currently meets twice/week. Focus is on individual areas of weakness in math



IEP, ESL, AND 504

IEP

- If your child has an IEP, you will discuss placement with your case manager to ensure needs are being met; students will receive their modifications/accomodations throughout the placement process

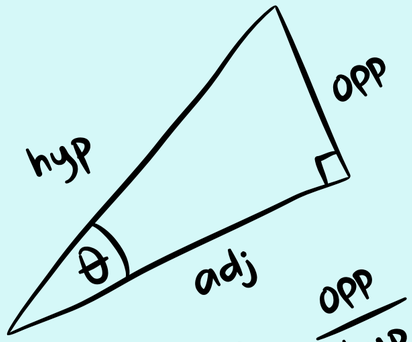
504

- Students with a 504 plan will receive their accomodations throughout the placement process

ESL

- Students in ESL programming will receive accomodations throughout the placement process

Rubric Reviews



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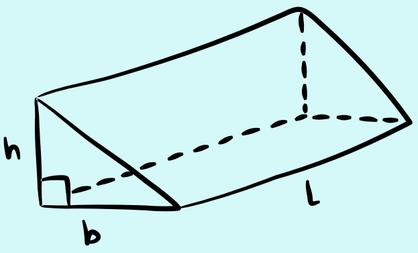

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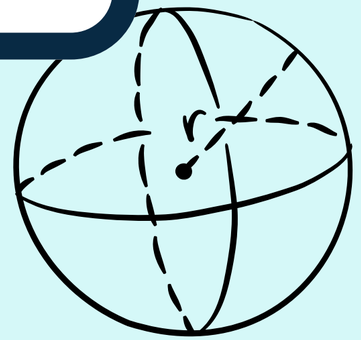

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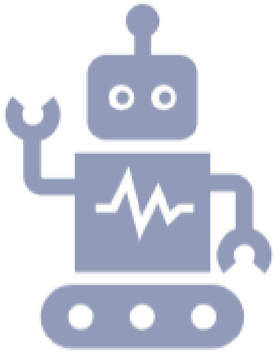
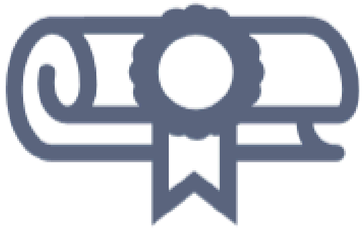
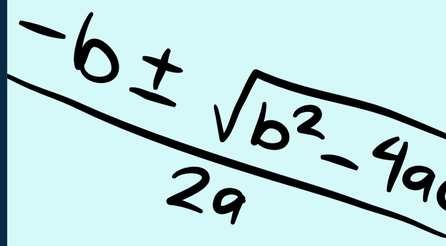
LINKIT





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.



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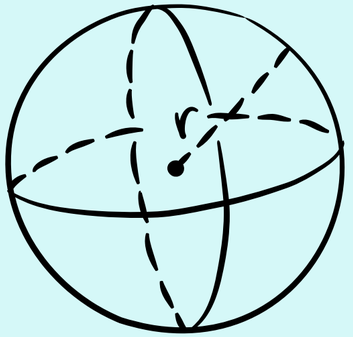


$V = \frac{4}{3}\pi r^3$

Math placement Rubric (rising 6th)

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** Student does not demonstrate mastery of grade- level expectations, never engaging in the outlined skills.	**Partially Meets Expectations** Student demonstrates partial mastery of grade-level expectations, rarely engaging in the outlined skills.	**Approaching Expectations** Student inconsistently demonstrates mastery or is otherwise approaching mastery of grade- level expectations of the outlined skills.	**Meets Expectations** Student consistently meets grade-level expectations of the outlined skills.	**Exceeds Expectation** 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** Provided None of the Following: Mathematical evidence, correct solution, explanation to justify thinking, showed work	**Partially Meeting** Provided One out of Four for the Following: Mathematical evidence, correct solution, explanation to justify thinking, showed work	**Approaching** Provided Two out of Four for the Following: Mathematical evidence, correct solution, explanation to justify thinking, showed work	**Meeting** Provided Three out of Four for the Following: Mathematical evidence, correct solution, explanation to justify thinking, showed work	**Exceeding** Provided All of the Following: Mathematical evidence, correct solution, explanation to justify thinking, showed work
Points	0	1	2	3	4

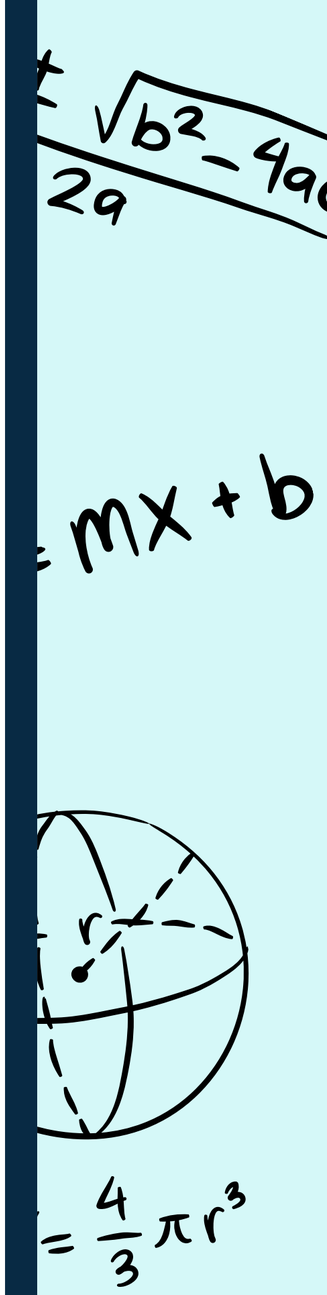
Points:_____

Points/Placement:

- Students who scored 12 or below will take Integrated 6/7 Math in 6th grade.
- Students who scored 13 points can be waived into Integrated 6/7/8 Math
- Students who scored 14-16 points will take an additional Algebra Aptitude Assessment. If they score *Exceeding Expectations*, they will be placed into Algebra 1. Students scoring below *Exceeding Expectations* will take Integrated 6/7/8 Math.

Total Points:_____

*DOK = Depth of Knowledge

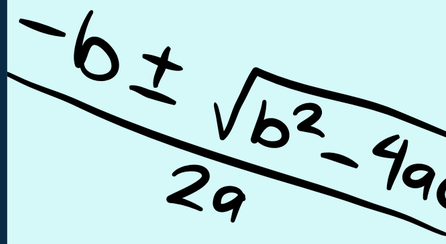


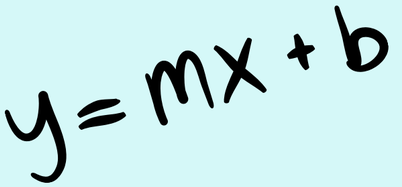
NJDOE Markers of Future Success Rubric

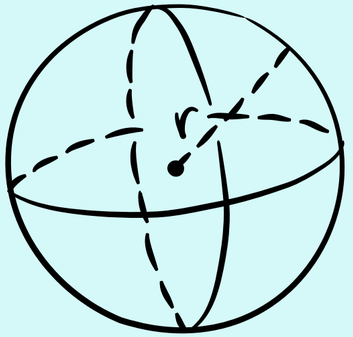
Sample Rubric for Important Markers of Future Success

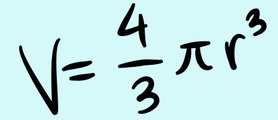
This rubric represents just three criteria a teacher might use to get a rough idea of how a student might perform in class. When these criteria, or others like them, are used in conjunction with other readily available information such as current grades and test scores, and grades from prior years, they 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









Rising 6th grade timelines

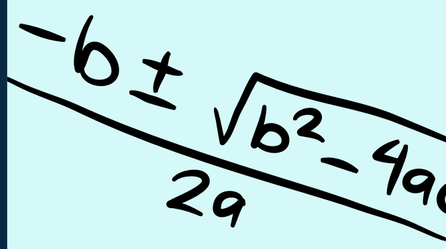
MAY 5TH: END OF YEAR (EOY) TESTING WINDOW OPENS FOR LINKIT

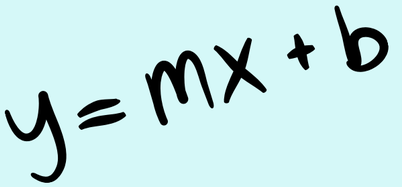
BY MAY 22ND: LINKIT FORM C ASSESSMENTS, OPEN ENDED TASKS, AND MIDDLE SCHOOL MATH APTITUDE ASSESSMENTS WILL BE COMPLETED WITH 5TH GRADE STUDENTS

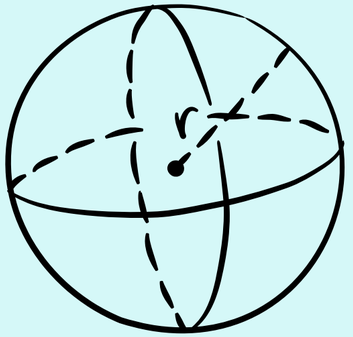
MAY 26TH-MAY 30TH: ALGEBRA APTITUDE ASSESSMENTS WILL BE GIVEN TO STUDENTS WHO QUALIFY (BASED ON DISCUSSED RUBRIC)***

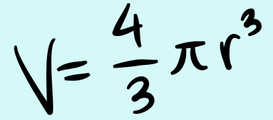
JUNE 6TH: PLACEMENTS WILL BE REVIEWED, AND LETTERS WILL BE SENT OUT FOR FALL PLACEMENT

***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









Math placement Rubric (rising 7th)

6th Grade to 7th Grade Math Placement Rubric

1. LinkIt Form C

Math 6/7/8 students	Not Meeting Expectations	Partially Meeting Expectations	Approaching Expectations	Bubble	Meeting/ Exceeding Expectations
Math 6/7 students	Not Meeting Expectations	Partially Meeting Expectations	Approaching Expectations	Bubble/Meeting Expectations	Exceeding Expectations
Points	0	1	2	3	4

2. Algebra Aptitude Assessment

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

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 Three Common Open-ended Response Assessments

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

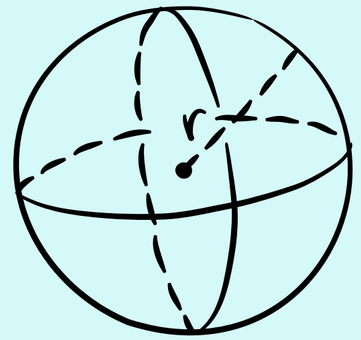
Points/Placement:

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

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

***Note: Students who score *Exceeding* on the Algebra Aptitude Assessment or earn 14 points on the rubric can be waived into Algebra 1 per family request using this form by June 30th.**

Total Points:_____



$V = \frac{4}{3}\pi r^3$

RUBRIC FOR STUDENTS EXITING ALGEBRA 1

Algebra 1 to Geometry/Alg 2 Rubric

LinkIt Form C

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

Algebra 2 Aptitude Assessment

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

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

In-class Assessment Average

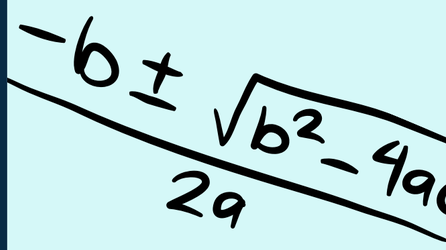
Percentage	< 80%	80-86%	87-94%	95% +
Points	1	2	3	4

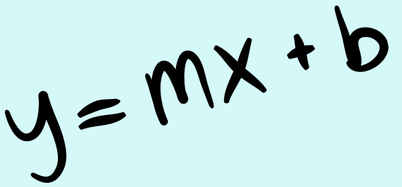
Points/Placement:

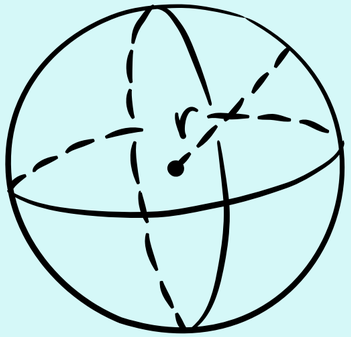
1-13 points: Students will be placed into Geometry
14-16 points: Students will be placed into Algebra 2

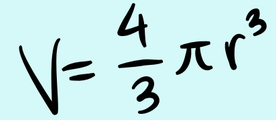
***Note: Students who score *Exceeding* or higher on the Algebra 2 Aptitude Assessment can be waived into Algebra 2 per family request using this form by June 30th.**

Total Points:_____







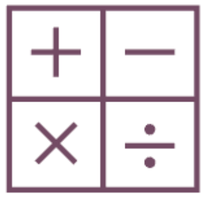


Important Notes

- All current 7th grade students currently enrolled in Integrated 7/8 Math will be enrolled in Algebra 1 in 8th grade.
- No placement rubric will be completed for these students.
- All current 7th grade students currently enrolled in Algebra 2 will take Geometry in 8th grade.
- No placement rubric will be completed for these students

ALGEBRA 1, GEOMETRY, AND ALGEBRA 2 ARE REQUIRED BY THE STATE OF NJ FOR HIGH SCHOOL GRADUATION.

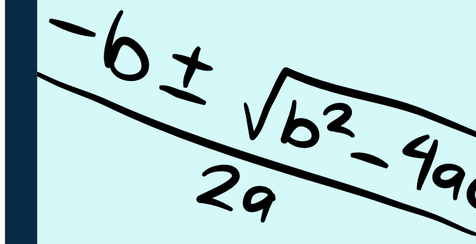
Rising 7th and 8th grade timelines

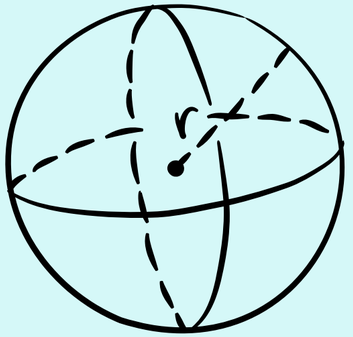


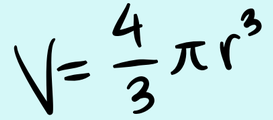
Ongoing: Rising 7th grade Open-Ended Responses

May 6th-22nd: End of Year Assessment Window

June 6th: Fall Placement Letters will be sent out







The Importance of Middle School Math Skills

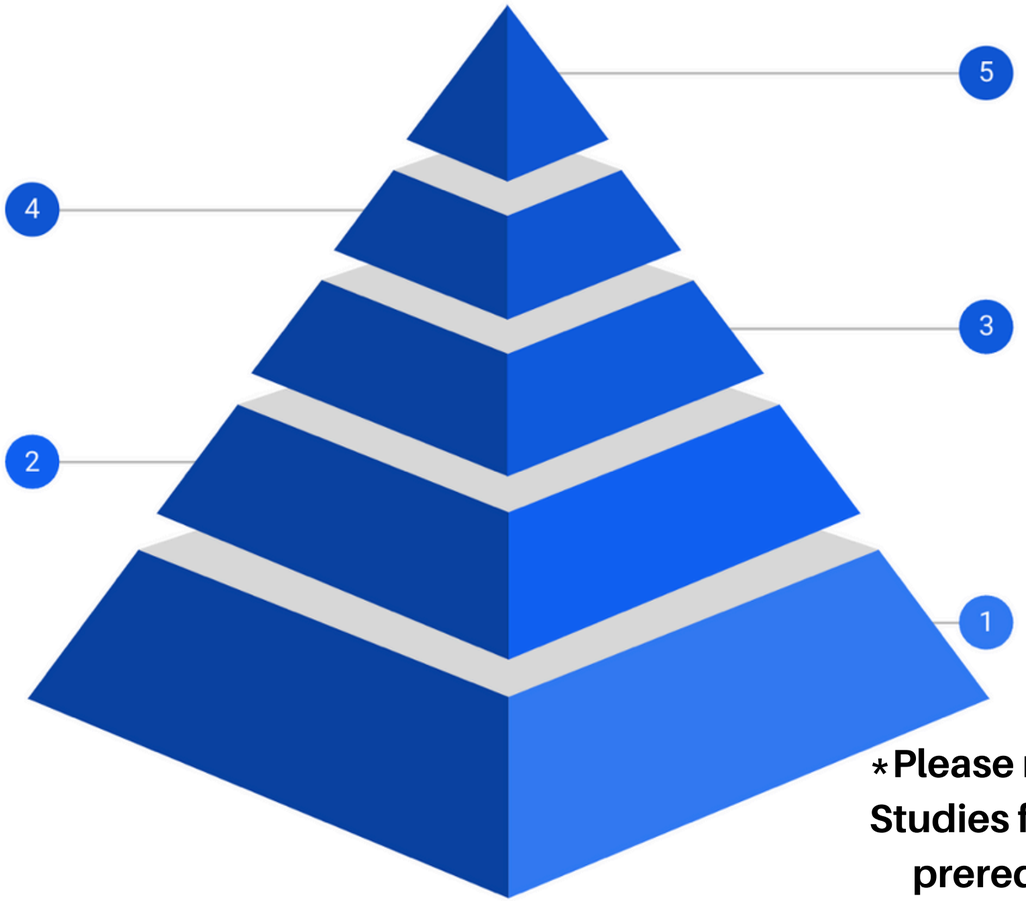
It is important to develop an in-depth, strong foundation of these skills to be successful in later math courses and on college assessments

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

- Grades 6-8 Math
- Algebra 1
- Geometry
- Algebra 2

Math Progressions

11th/12th grade electives:
Intro to Stats/Data Analysis
Discrete Math
AP Statistics



Calculus
Regular
AP Calc AB
AP Calc BC
Multivariable Calculus

PreCalculus
Applications & Modeling
Regular
Accelerated.

Algebra 2
Elements
Regular
Accelerated

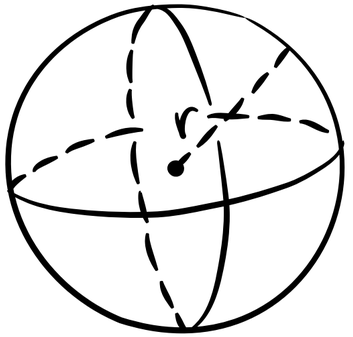
Geometry
Regular
Accelerated

Algebra 1

***Please refer to the PHS Program of Studies for course descriptions and prerequisite/qualifying criteria**

$$\frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

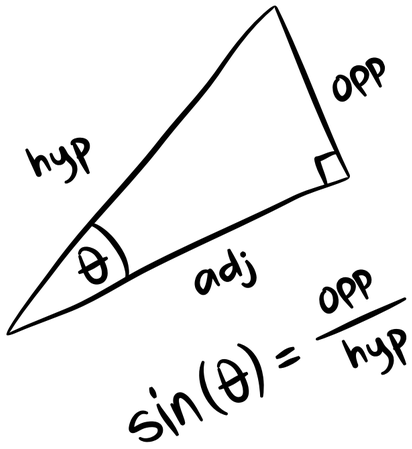
$$y = mx + b$$



$$V = \frac{4}{3}\pi r^3$$

QUESTIONS?

If you have any questions, please type them in the Q&A box at the bottom of the screen!



Next Steps

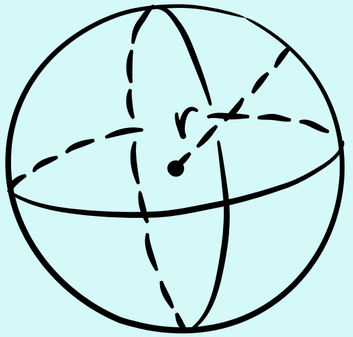
- The slide deck and a recording of this webinar will be available on the district website
- Points of contact:
  - Rising 6th grade: Sarah Moore; sarahmoore@princetonk12.org
  - Rising 7th and 8th grade: Tiffany Brennan; tiffanybrennan@princetonk12.org

Thank you for your time and partnership!

$$\frac{x}{a} + \frac{y}{b} = 1$$

$$\frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

$$y = mx + b$$



$$V = \frac{4}{3}\pi r^3$$