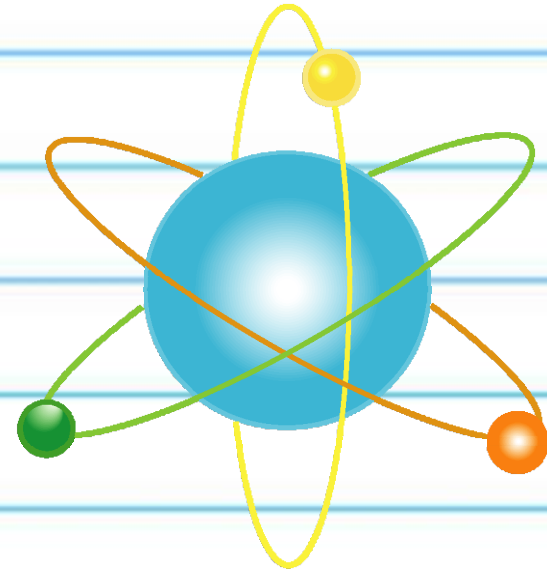
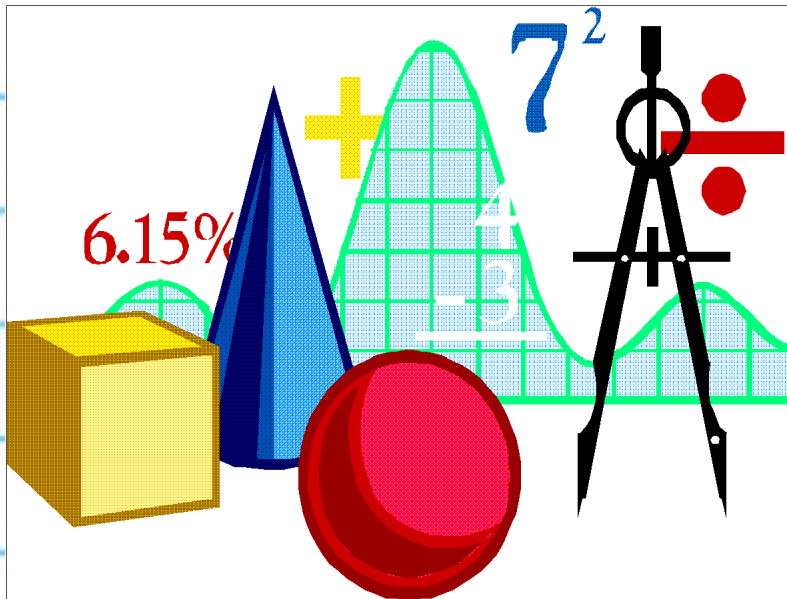


CHS STEM INFO Night



Jameel Misbahuddin

STEM Supervisor Columbia High School

February 18, 2020

<https://tinyurl.com/syh92qr>

Basics

- All students need 15 credits in math and science in high school (3 classes each)
- All students can choose any level for any course they are eligible for
- All core math and science classes follow the same grading policy and give Quarterly Assessments

<https://tinyurl.com/syh92qr>

Math Sequence

- Core Classes: Alg 1 → Geometry → Alg 2 → *Precalc*
- Other classes: Electives & AP classes

ACADEMIC COURSES

Major Assessments	Non-Collected HW	Other
70-80%	0-15%	5-20%

HONORS COURSES

Major Assessments	Non-Collected HW	Other
75-85%	0-15%	0-15%

<https://tinyurl.com/syh92qr>

What to expect in Freshman Math

Algebra 1, Geometry or Algebra 2

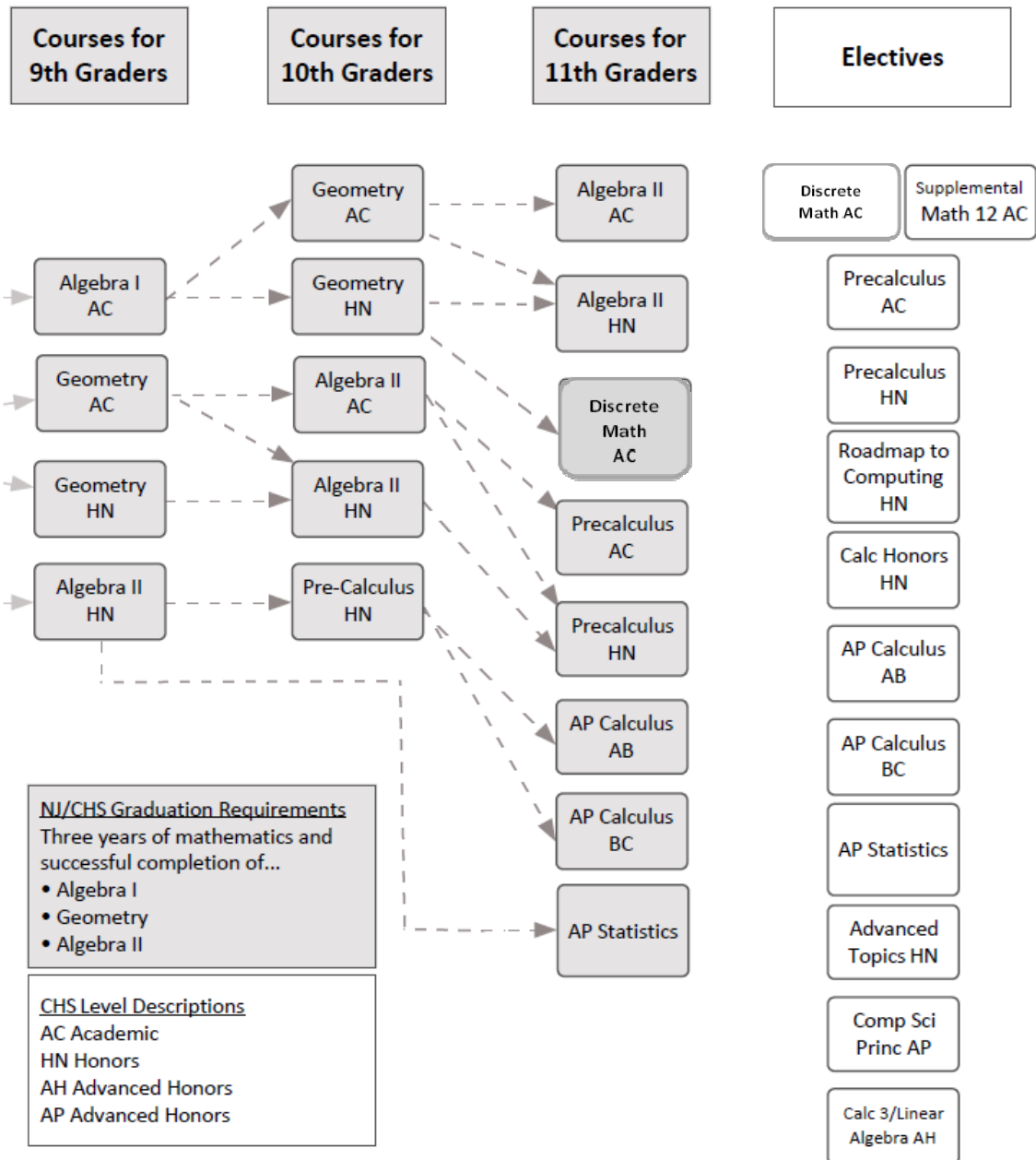
- Frequent HW and assessment
- Quarterly Exams
- NJSLA (formerly PARCC) preparation
- Expectation of prior class mastery

<https://tinyurl.com/syh92qr>

PATHWAYS

High School Math Courses

(Prerequisite course requirements for each course)



Routes to Calculus



Grade	8	9	10	11	12
Grade	7	8	9	10	11
Grade	9	Summer	10	11	12
		10	10	11	12
		10	Summer	11	12

<https://tinyurl.com/syh92qr>

Science Sequence

- Core Classes: Bio → Physics → Chem
- Other classes: Electives & AP classes

ACADEMIC COURSES

Major Assessments	Labs	Non-Collected HW	Other
50-60%	15-25%	5-15%	No more than 15%

HONORS COURSES

Major Assessments	Labs	Non-Collected HW	Other
60-70%	15-25%	No more than 10%	No more than 10%

<https://tinyurl.com/syh92qr>

What to expect in Freshman Biology

- Topics:
 - Matter & Energy, Ecosystems, Human Impact, Cells, Natural Selection & Evolution, Biochemistry, Molecular Genetics
- Emphasis on:
 - Study Skills, Organization & Time Management
 - Transfer of knowledge to new situations
 - Experimental Design
 - Reading & Interpreting Data

<https://tinyurl.com/syh92qr>

Pathways

<u>9th grade</u>	<u>10th grade</u>	<u>11th grade</u>	<u>12th grade</u>
Biology AC	Physics AC	Chemistry AC	<u>AP Options</u> <ul style="list-style-type: none"> • AP Chemistry • AP Biology • AP Physics • AP Env. Science
Biology HN	Physics HN	Chemistry HN	<u>Semester Electives</u> <ul style="list-style-type: none"> • Anatomy • Astronomy • Biochemistry • Forensic Science • Env. Science • Physics 2
		Chemistry AP	
	<i>Science Research 1</i>	<i>Science Research 2</i>	<i>Science Research 3</i>

How is CHS different from MS?

- Quarterly exams
- Summer Assignments and Classes
- Grading/Transcripts
 - (9th grade success)
- Period 9
- Pace & Rigor

<https://tinyurl.com/syh92qr>

Commonly Asked Questions

- What is the difference between Academic and Honors?

Academic	Honors
<ul style="list-style-type: none">• Assessment preparation• Homework time (20 mins)• Connections (<i>"How is this topics linked to what we talked about yesterday?"</i>)	<ul style="list-style-type: none">• Assessment Guidance• Homework time (30 mins)• Extensions (<i>Ex: self-directed labs, Problems different from class example"</i>)
**CONCEPTS ARE THE SAME REGARDLESS OF LEVEL	

- What to do when struggling?
 - Seek Help: Period 9 & SLAM Lab

<https://tinyurl.com/syh92qr>

How can parents help

- Understand the system
- Talk to your students about class
- Stay in touch with teachers' updates (emails, google classroom, gradebook)
- Reach out to teachers and myself for and with feedback

<https://tinyurl.com/syh92qr>

Resources

- Teachers, Counselors and Myself
 - <https://www.somds.k12.nj.us/columbia/mdocs-posts/2020-2021-course-offering-guide/>
 - <https://www.somds.k12.nj.us/columbia/mdocs-posts/columbia-high-school-handbook/>

Jameel Misbahuddin 9-12 STEM Supervisor
(973) 762-5600 x 1204
jmisbahu@somds.k12.nj.us

<https://tinyurl.com/syh92qr>