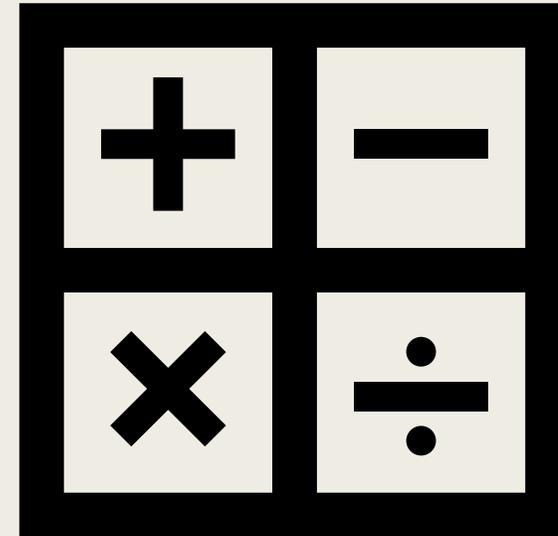


WHY
ALGEBRA
NOW?



Congratulations

Your academic history, strong work ethic and ability to use logic and reasoning skills has earned you a seat in:

Algebra!

Central Middle School has had a **92 percent pass rate** for the Algebra EOC with **268** students identified last year.

This year **412** students have been identified for Algebra

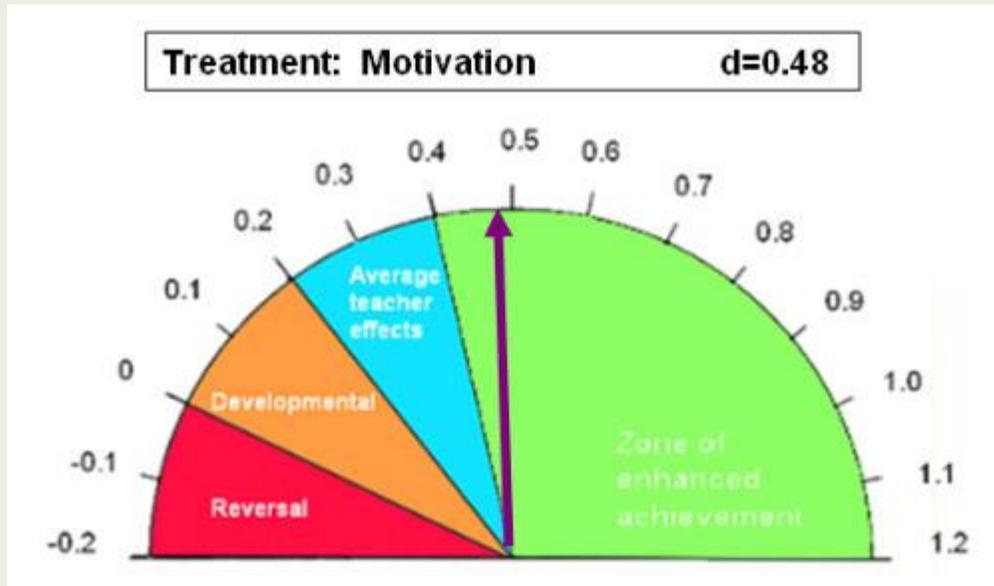
Why **Acceleration**, you ask?

“Algebra is the foundation for students' future success in science, technology, engineering, and math.”

“Taking the course earlier in their academic careers allows students sufficient time to take the more advanced courses that are often prerequisites for postsecondary STEM majors. ”

NOV 2018 | U.S. DEPARTMENT OF EDUCATION

Attitudes and Beliefs



.48 is over a year's growth

This can be towards intrinsic or extrinsic attributions: is the learning itself the source of satisfaction, or are perceived rewards the sources of satisfaction?

A combination of both is probably needed, but the more the balance moves towards intrinsic motivation, the greater the investment in learning, which then leads to greater learning gains.

What are the benefits?

- Begin on a path of College and Career Readiness
- Academic opportunity to meet the rigorous course requirements of High School.
- Opportunity to engage in productive struggle by building cognitive stamina
- An environment to problem-solve and collaborate with your peers.

How did we choose your 7th grader?

Data analysis from the District rubric criteria below showed that 83% of the students earning 13 rubric points scored levels 4-5 on the Algebra 1 EOC in 7th grade. Additionally 41% of students who earned 12 points scored levels 4-5 on the Algebra 1 EOC.

Mathematics Readiness Rubric for Rising 7 th graders					
Student Name _____					
Student Number _____ Elementary School _____					
	0	+ 1	+ 2	+ 3	+ 4
Grade 5 Math FSA Level	1	2	3	4	5
Grade 6 Math FSA Level	1	2	3	4	5
Grade 6 Reading FSA	1	2	3	4	5
Grade 6 Final Average (Math)	F	D	C	B	A
Total Points					
Total Points	Recommended Course				
13 – 16	Algebra I Honors <i>(Within this range, greater than 88% scored levels 4-5 on the Algebra 1 EOC.)</i>				
11 – 12	M/J Grade 7 Mathematics Advanced <i>(Could consider Algebra 1 Honors in 7th with caution; data indicates that fewer than 36% in this range scored levels 4-5 on Algebra 1 EOC thereby affecting future math course success.)</i>				
6 – 10	M/J Grade 7 Mathematics Advanced				
0 – 5	M/J Grade 7 Mathematics <i>(Level 1 & 2's on FSA math)</i>				

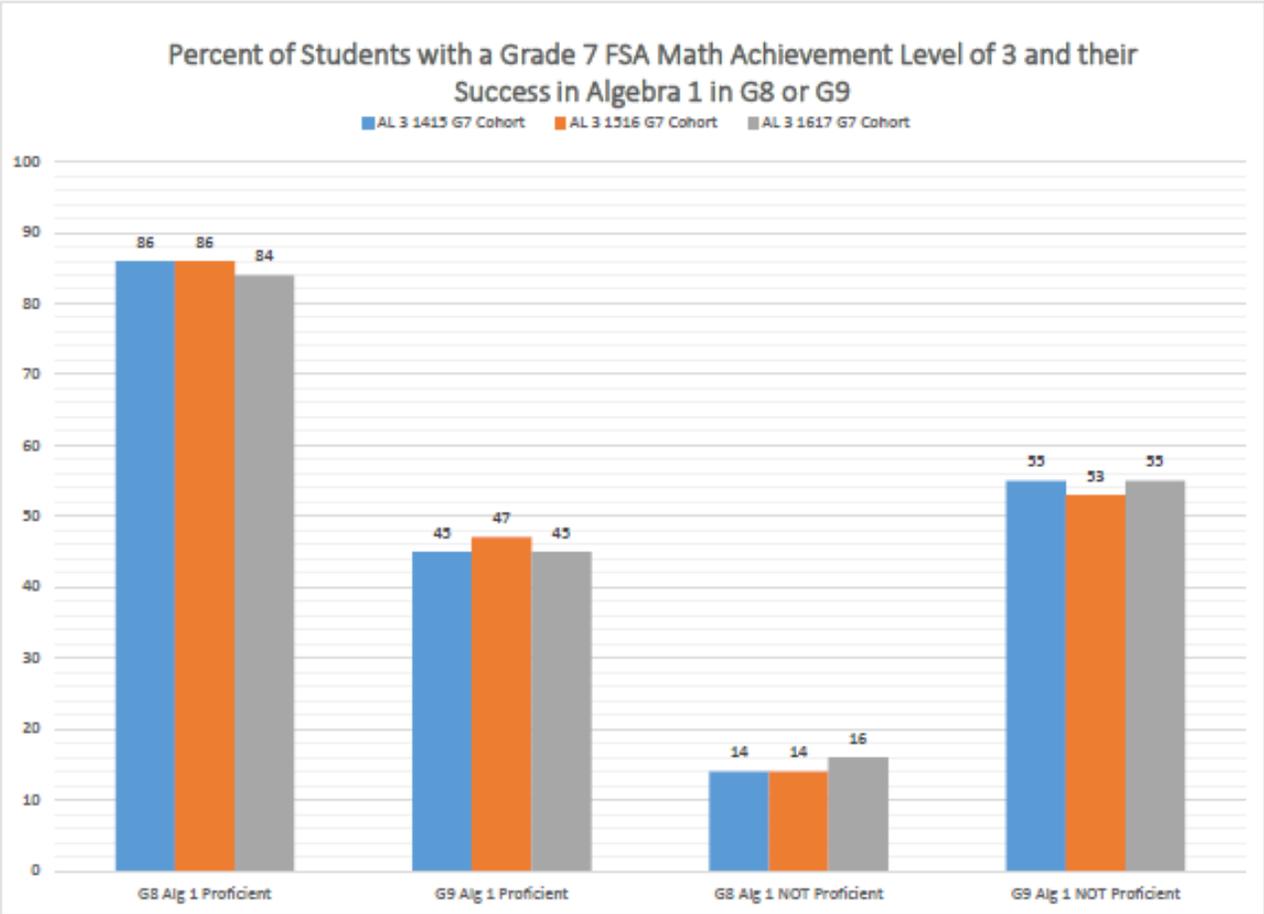
How did we choose your 8th grader?

- Looked at 7th grade proficiency and beyond on FSA math
- Placed level 3 & 4 placed in Algebra
- Placed level 4 and 5 placed in Algebra Honors
- Reviewed final grades in math for 7th grade
- Teachers analyzed students and gave skills assessments the first weeks of school

Ability to problem solve and engage in mathematical dialogue was an important consideration

Completing Algebra in Middle School = success !

20-021 BPS Grade 7 Students with Achievement Level of 3 on the FSA Math and their Grade 8 OR 9 Algebra 1 Success



Central Middle School Algebra Success

Algebra 1 EOC (G7-8) Honors/Regular Comparison BY School					
	Achievement Level				
	1	2	3	4	5

Honors

Central Middle School	0.00%	0.00%	10.00%	40.00%	50.00%
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Regular

Central Middle School	0.00%	3.70%	38.89%	40.74%	16.67%
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How will we support your child?

NWEA MAP Growth- Progress monitoring tool administered 3 times a year to see where students are and skills that need reinforcement

Media Center study hall- Daily with Ms. Boyce 8:00am- 9:00am- quiet place to study or access computers

There will be 2 math teachers present daily to support students and provide access to Algebra Nation in the **media center (M, T, W, &F 8:30-9:00)**

Tutoring is also available with individual teachers

Math Tutoring Schedule 2019-2020

- Monday AM: Rutenberg & Mallak
 - Tuesday PM: Lowell
- Wednesday AM: Woodyard & Bryant
 - Thursday PM: Bellomy & Murphy
 - Friday AM: Powers & Bailey
- Pittenger: Every AM and PM except Friday PM.

AVID- Elective students:

- Mrs. Zifer Mon Wed Fri 8:30-9:25

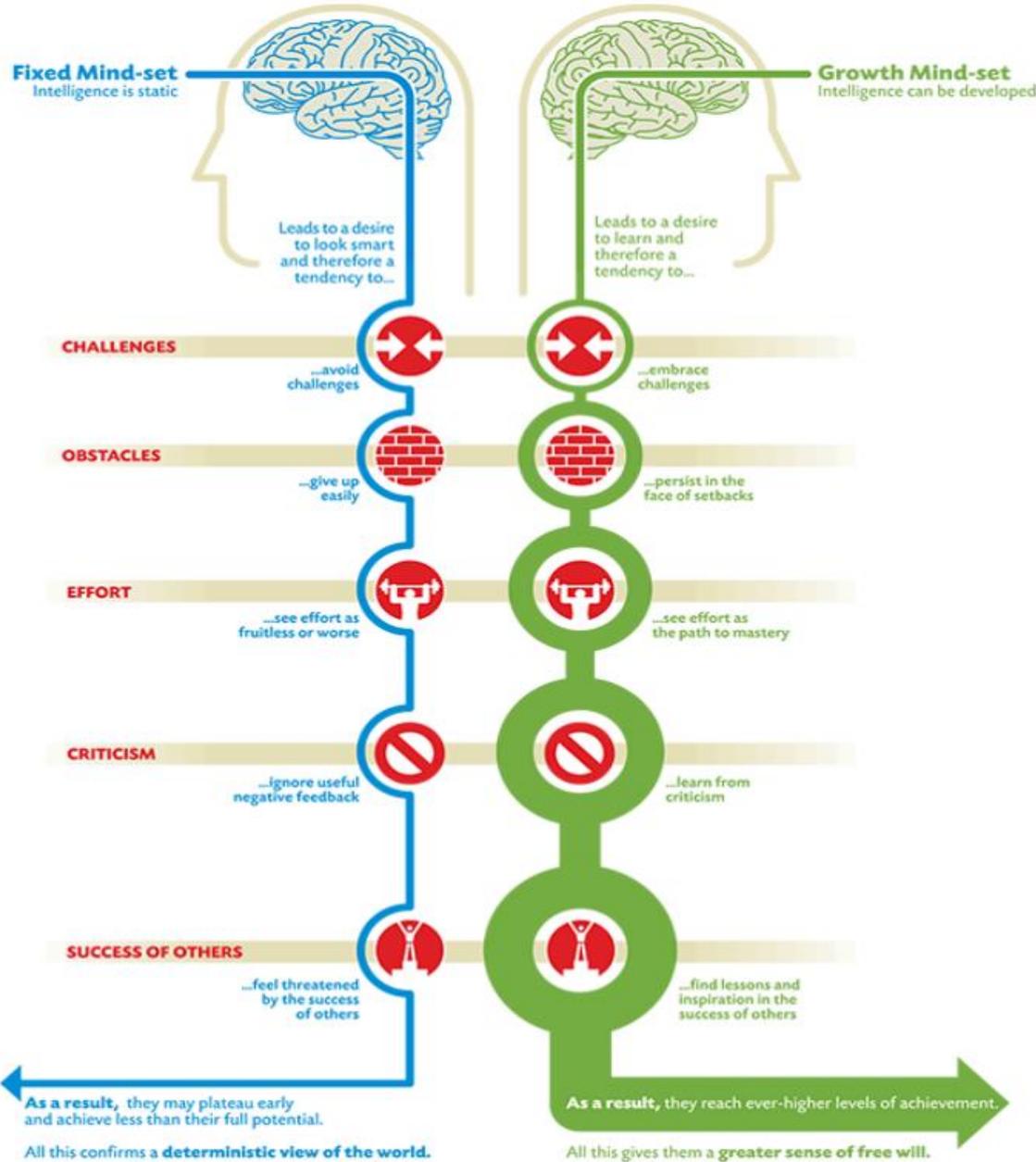
Algebra Nation

- Algebra nation allows access at home for support
- Updated yearly with EOC Similar to EOC and aligned with pacing guide and standards
- Similar format to how EOC presents questions
- Exposes students to an online platform
- Has many skills assessments that help students monitor their understanding

What Are Mindsets?

Fixed Mindset

Intelligence and ability are fixed qualities from birth that cannot be changed significantly.



Growth Mindset

Intelligence and ability can be developed with effort, strategies, and support.

Math Growth Mindset

Students with a growth mindset:

- Believe that talents can be developed and great abilities can be built over time
- View mistakes as an opportunity to develop
- Are resilient
- Believe that effort creates success
- Think about how they learn

Students with a fixed mindset

- Believe that talent alone creates success
- Are reluctant to take on challenges
- Prefer to stay in their comfort zone
- Are fearful of making mistakes
- Think it is important to 'look smart' in front of others
- Believe that talents and abilities are set in stone, you either have them or you don't