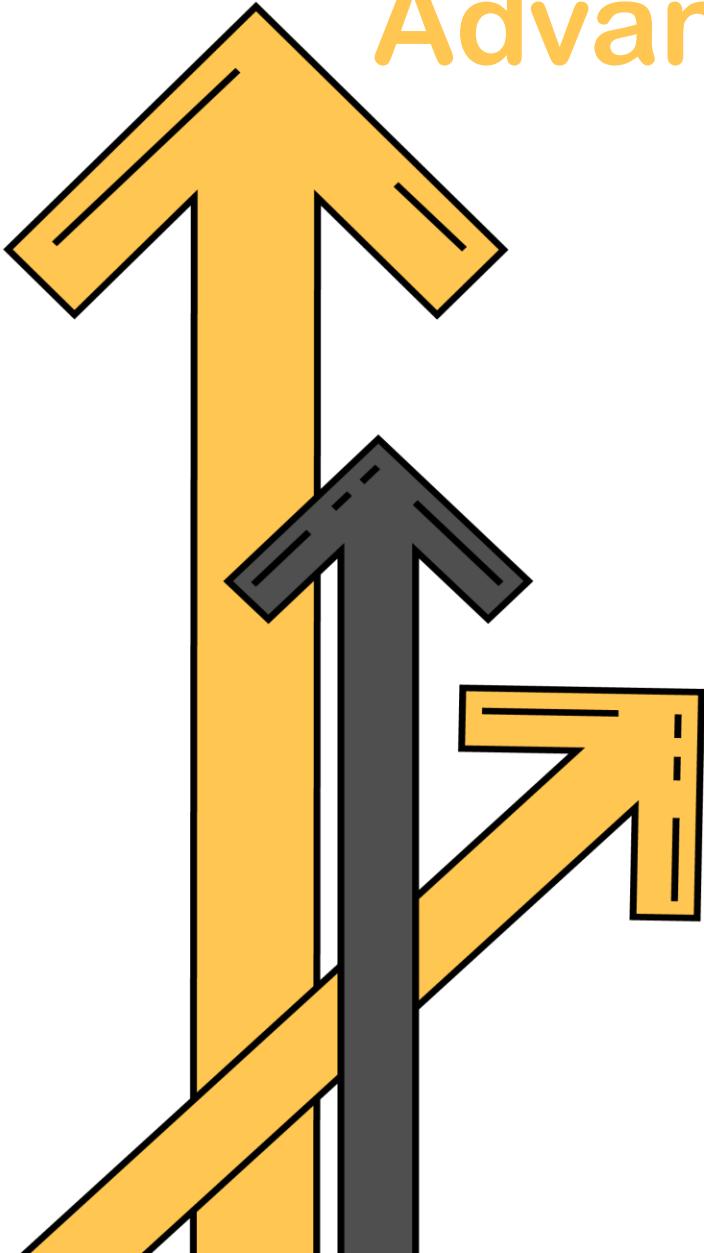


ADVANCED MATH ACCESS

Janet Johnson
Edstar Analytics, Inc.

Advanced Math vs. Standard Math

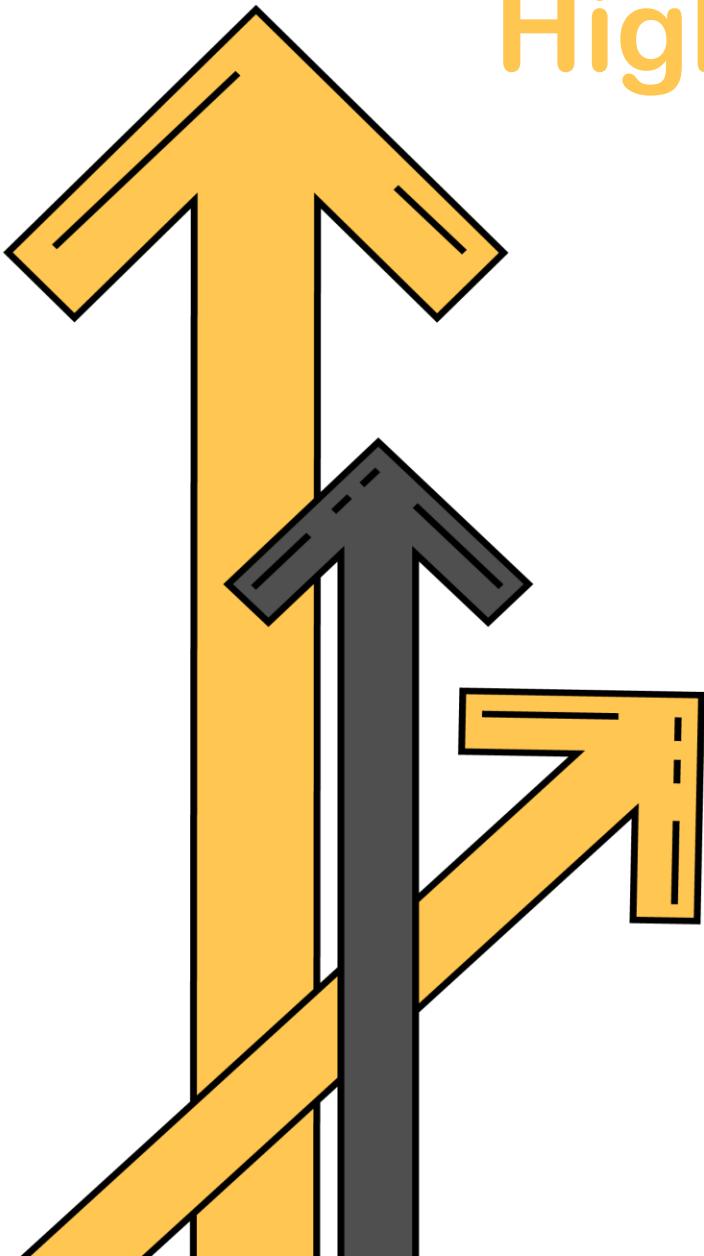


Standard math traditionally consists of rote learning, mnemonics, and stand-alone topics;

Advanced math consists of conceptual understanding and topics build on each other.

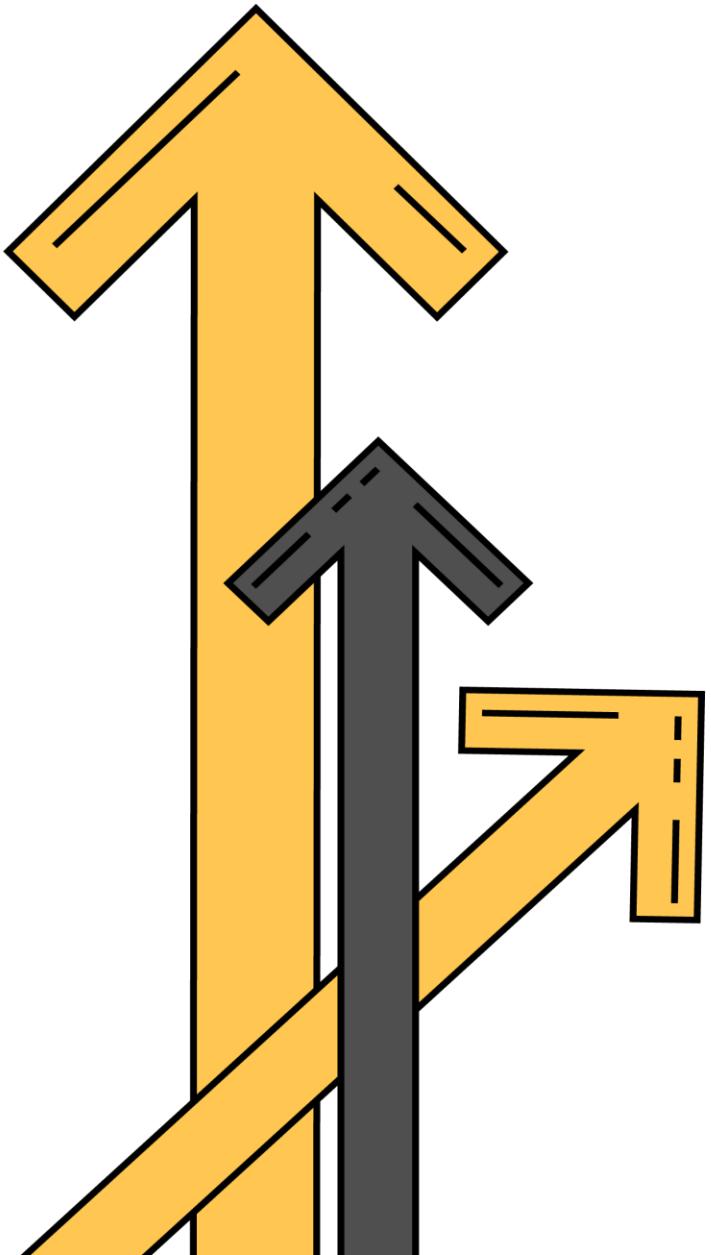
- Students in the standard math track:
 - are not being prepared for 21st century NON-STEM careers;
 - rarely if ever transition into the advanced track;
 - can't enroll in or pass gateway math classes at community colleges.
- Only students with access to advanced math are in the STEM-career pipeline

High Expectations for All



We need to change our mindset and realize all students need to learn advanced math concepts for arithmetic and basic algebra.

- This is what is required for scoring 22 on ACT Math, which indicates college-ready for a NON-STEM Career
- Have the most qualified math teachers teach this
- Increase the number of students in advanced math
 - With a good foundation in arithmetic and basic algebra concepts, students could move into the STEM track at later times. (More gates in.)
 - There is currently one well-guarded gate into advanced math



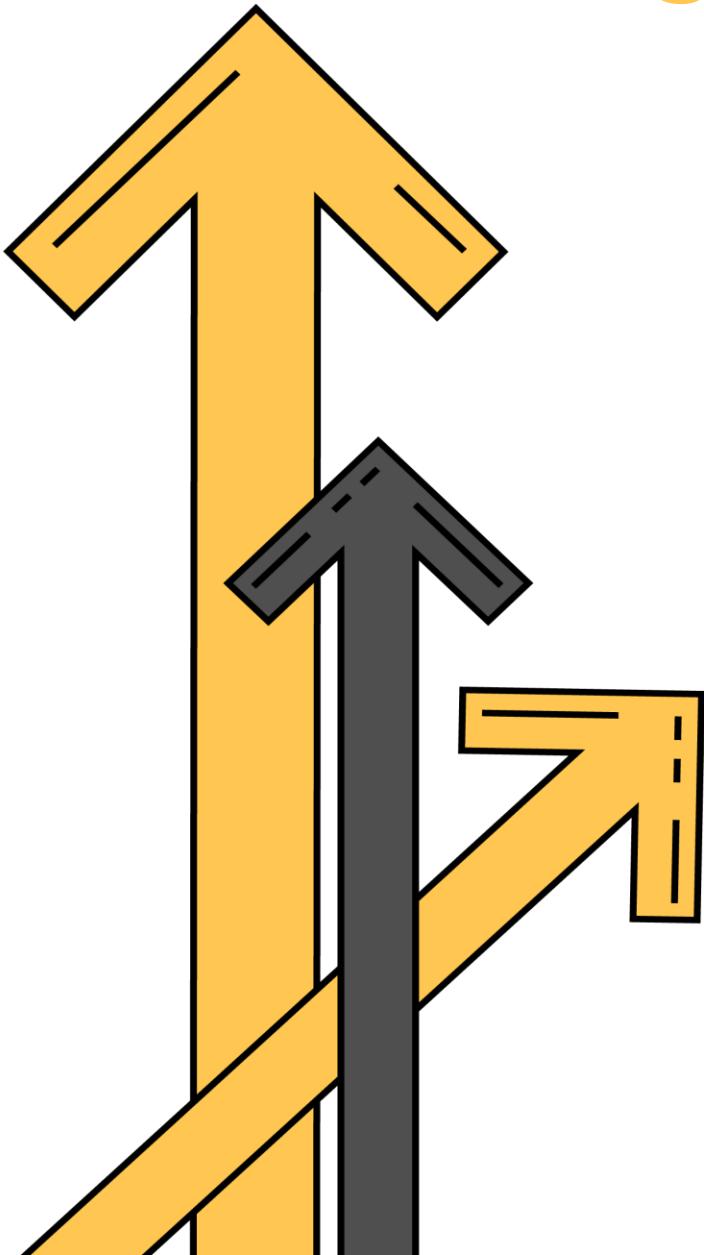
DAILY NEWS

We Create Mathematically Talented Kids!

Research shows that rather than identify the mathematically talented, we can create talent with access to rigor.



Creating Mathematically Talented Students



Stop thinking that some students are “math naturals” and that we are to identify them and place them into advanced math.

- Teaching all students arithmetic and basic algebra the way we teach advanced math will prepare them either for:
 - Success in a NON-STEM career
 - Or to transition into the advanced math track to prepare for a STEM career.
- Barriers: Our thinking, our culture, our curriculum