

Mathematics for ALL

Time to Dismantle Tracking in Mathematics


Brian R. Lawler

June 22, 2021

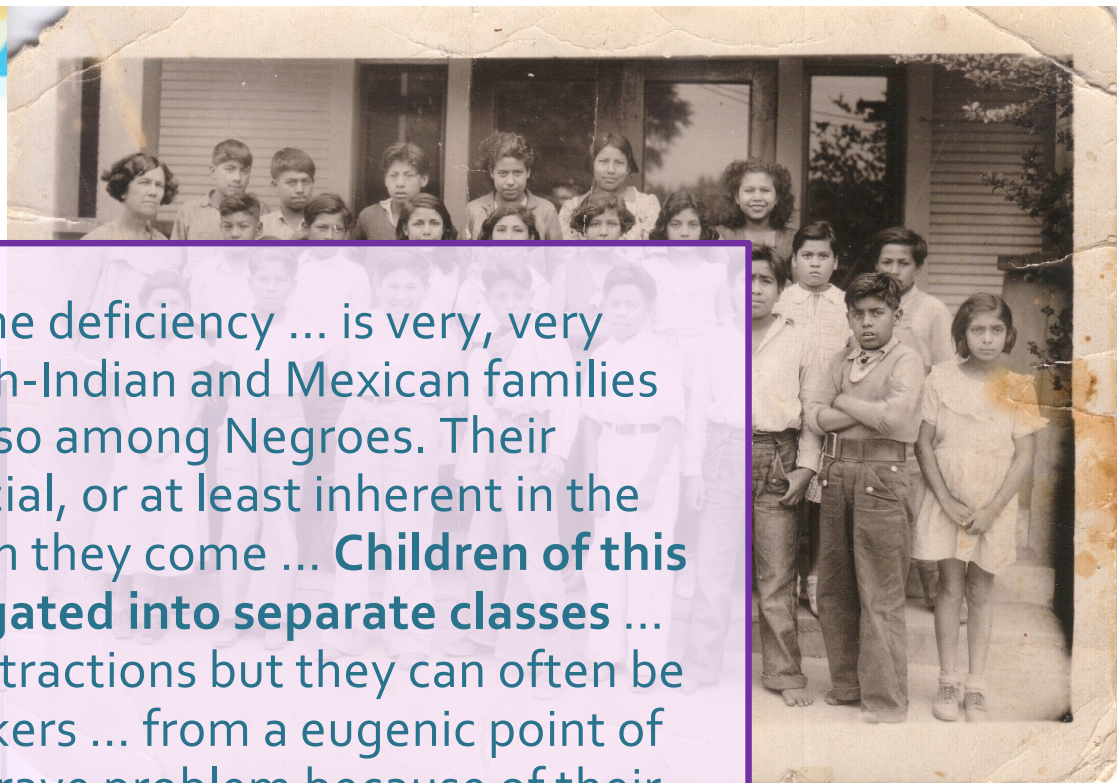
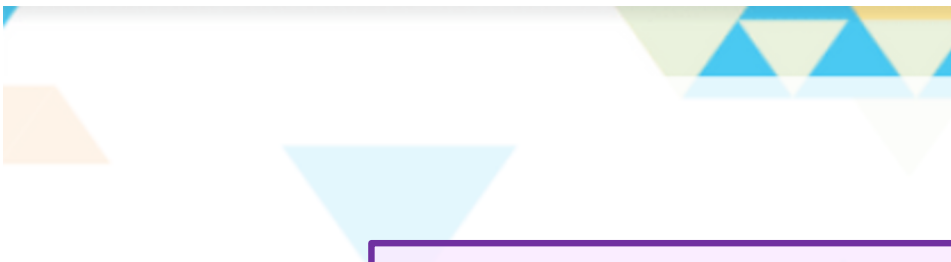




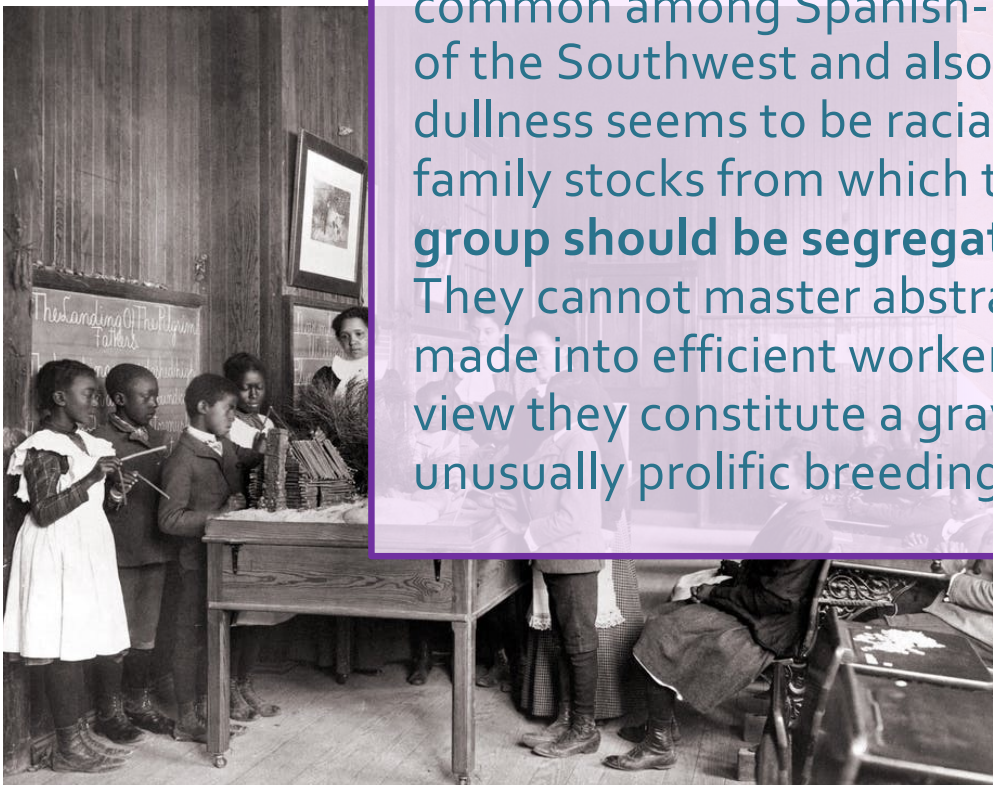
1. Tracking was born in White Supremacy.
2. Tracking today functions to perpetuate White Supremacy.
3. Each of us are ethically committed to action toward ending within-school segregation by dismantling tracking in mathematics.



Tracking is the
separation of students
by perceived ability.



High-grade or border-line deficiency ... is very, very common among Spanish-Indian and Mexican families of the Southwest and also among Negroes. Their dullness seems to be racial, or at least inherent in the family stocks from which they come ... **Children of this group should be segregated into separate classes ...** They cannot master abstractions but they can often be made into efficient workers ... from a eugenic point of view they constitute a grave problem because of their unusually prolific breeding.





INTELLIGENCE TESTS AND SCHOOL REORGANIZATION

BY
LEWIS M. TERMAN: VIRGIL E. DICKSON
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C. R. TUPPER AND GRACE FERNALD



*Prepared as a subcommittee report
to the Commission on Revision of
Elementary Education
National Education Association*

UNFIT HUMAN TRAITS
 SUCH AS FEEBLEMINDEDNESS
 EPILEPSY, CRIMINALITY,
 INSANITY, ALCOHOLISM,
 PAUPERISM AND MANY OTHERS,
 RUN IN FAMILIES AND ARE
 INHERITED IN EXACTLY THE
 SAME WAY AS COLOR IN
 GUINEA-PIGS. IF **ALL**
MARRIAGES WERE EUGENIC
 WE COULD **BREED OUT**
 MOST OF THIS UNFITNESS
 IN **THREE GENERATIONS.**

THE TRIANGLE OF LIFE

YOU CAN IMPROVE YOUR EDUCATION,
 AND EVEN CHANGE YOUR ENVIRONMENT;
 BUT WHAT YOU REALLY **ARE** WAS ALL
 SETTLED WHEN YOUR PARENTS WERE
BORN.
 SELECTED PARENTS WILL HAVE
 BETTER CHILDREN **THIS**
 IS THE **GREAT AIM OF EUGENICS**

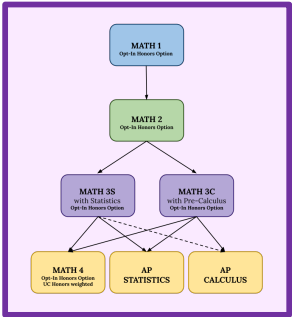
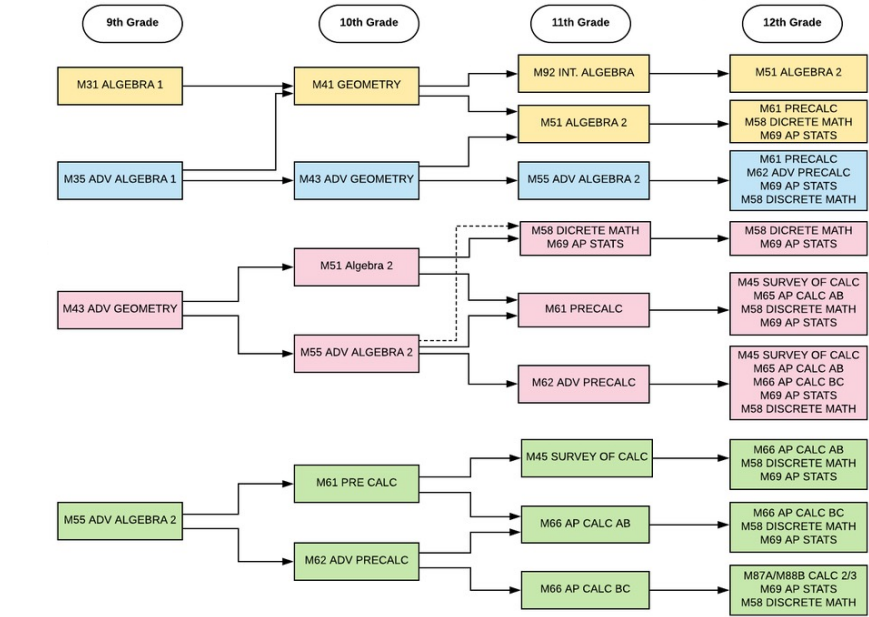
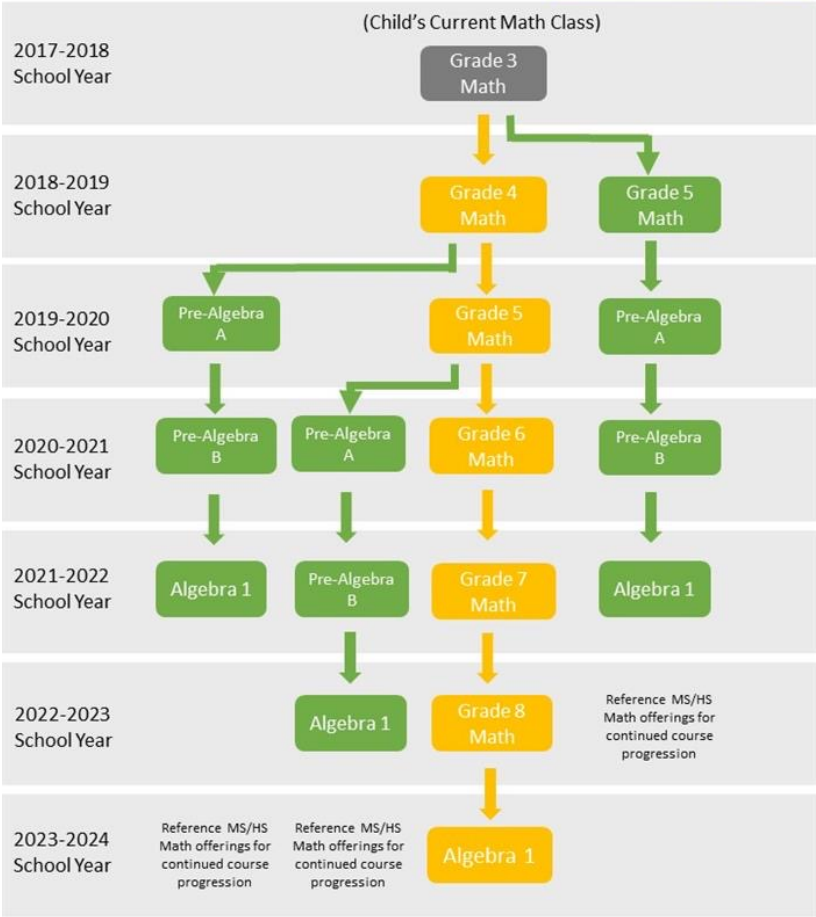
**"We may refer to these as
classes for the 'gifted,'
'bright,' 'average,' 'slow,'
and 'special' pupils."**

- Emphasize basic skills & compliance
- Lower expectations
- Teachers less enthusiasm and clarity
- Teachers feel less effective
- Racially stratified classes




Placement hardened the race and class lines drawn in the larger society.

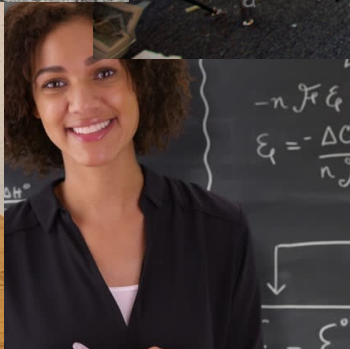
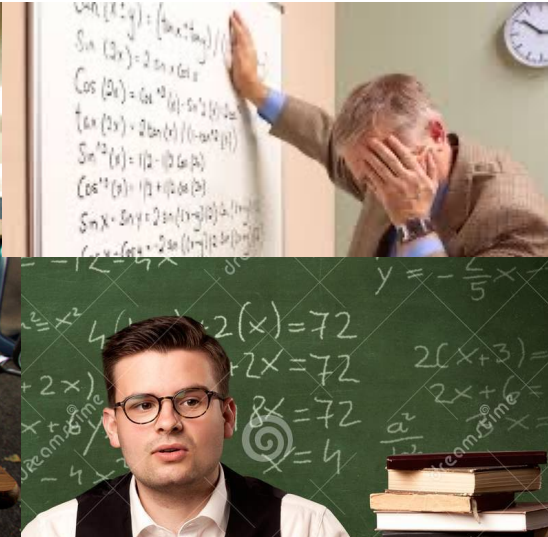
- *Hobson v. Hanson*, 1967
- *Moses v. Washing Parish.*, 1971
- *McNeal v. Tate County*, 1975
- *Hoots v. Pennsylvania*, 1981, 1988

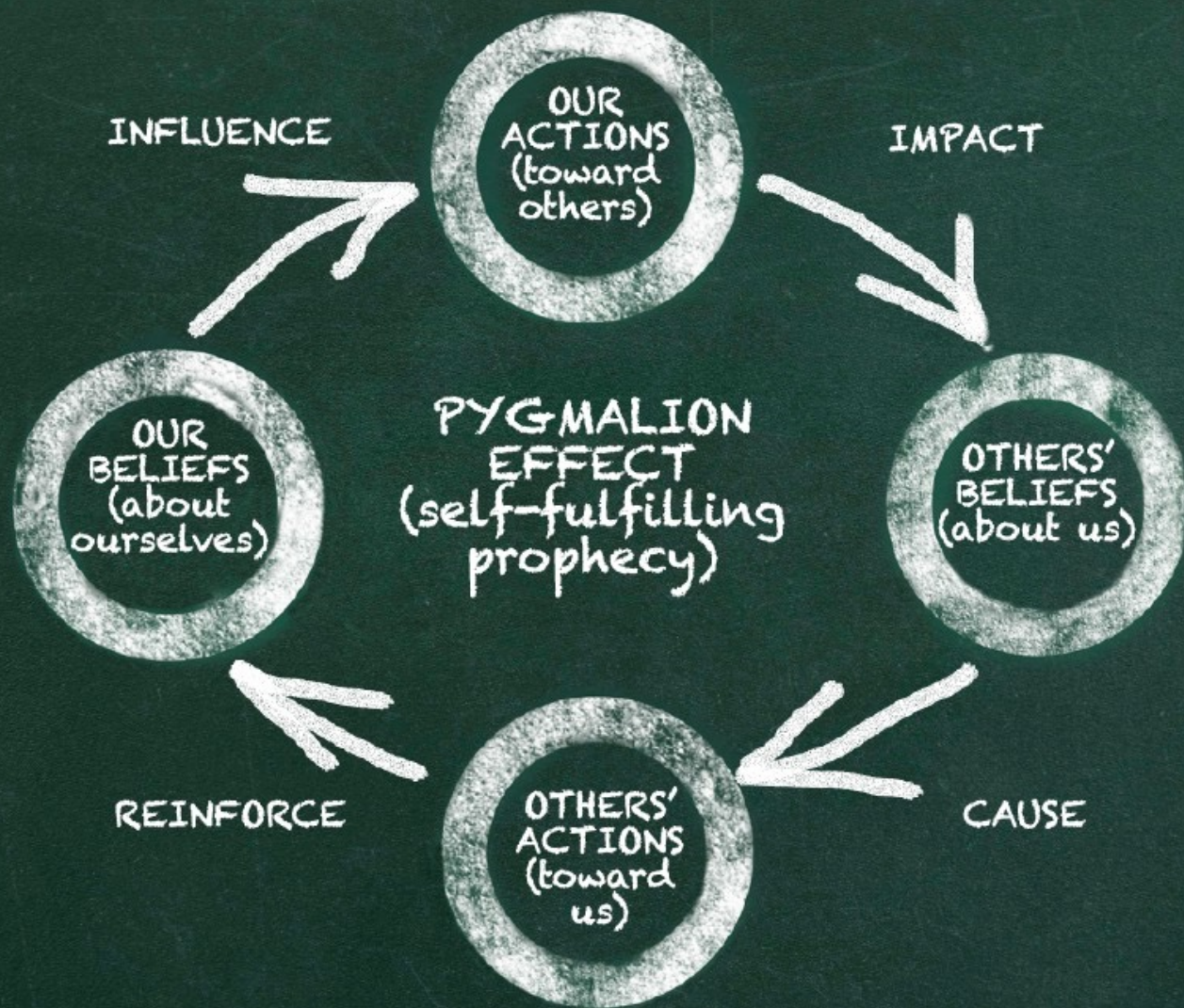


PATHWAYS THROUGH SECONDARY MATH						
	7th Grade	8th Grade	9th Grade	10th Grade	11th Grade	12th Grade Options
General Education Pathway	Math 7	Math 8	Integrated Math I	Integrated Math II	Integrated Math III	Pre-Calculus Prob/Stats MRWC Financial Alg
Summer Bridge Accelerated Pathway	Math 7	Math 8	Summer Bridge to Math II taken in Summer between 8th and 9th Grades			
Accelerated Pathway	Accelerated Math 7	Integrated Math I	Integrated Math II	Integrated Math III	Pre-Calculus	Calculus AP Calc AB AP Stats MRWC
Accelerated Enhanced Pathway	Accelerated Math 7	Integrated Math I	Integrated Math II Enhanced	Int Math III Enhanced OR Honors PreCal	AP Calculus AB OR AP Calculus BC	AP Calc BC AP Stats IB Math MRWC
Special Education Pathway	Math 7 Basic OR Essentials	Math 8 Basic OR Essentials	Int Math IA Basic OR Essentials	Int Math IB Basic OR Essentials	Fundamentals of Int Math 2 OR Modified Int Math 2	Financial Algebra Basic



Why do we track today?





Golem Effect

Lower expectations
placed on individuals
lead to
poorer performance.





Why does tracking persist?

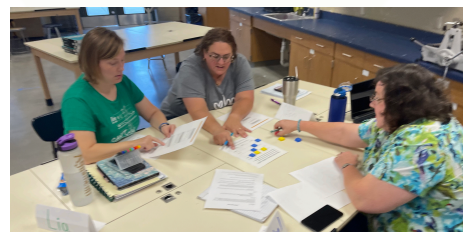
Detracking Rationale

1. Ensure all students have access to quality math
2. Data – detracking raises achievement of traditionally underperforming students
3. Math is multidimensional / people have many mathematical abilities; tracking makes no sense
4. End the racial segregation enabled by tracking
5. Broader purposes of education; appreciation of ideas, intelligence, feelings, and values of people different than themselves



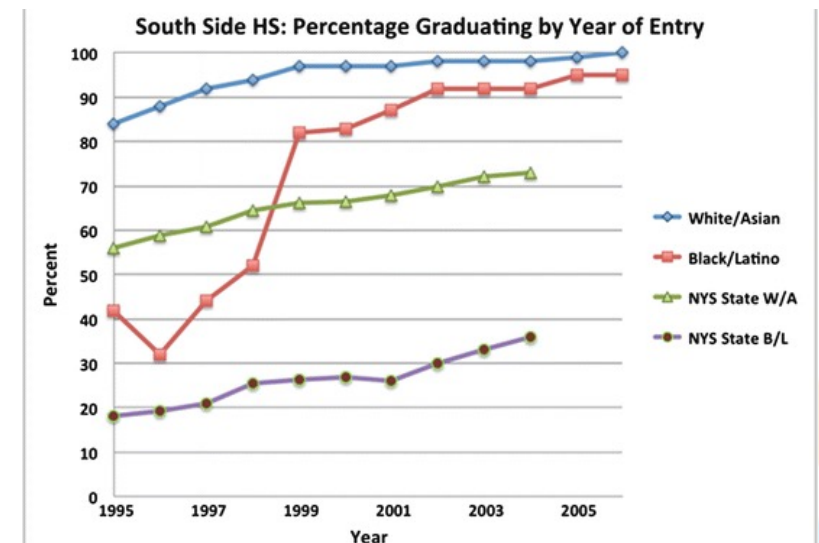
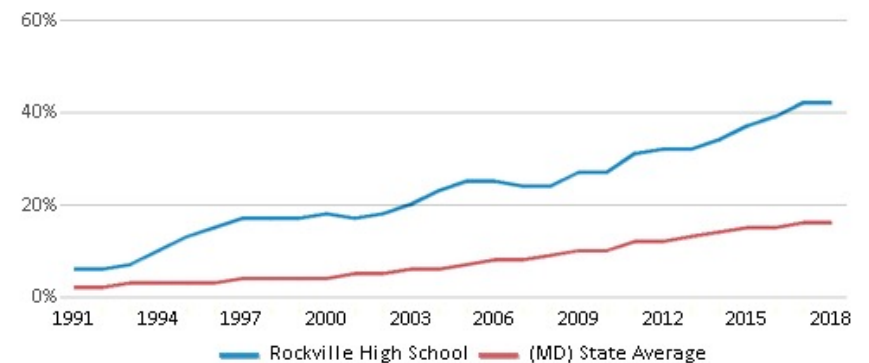
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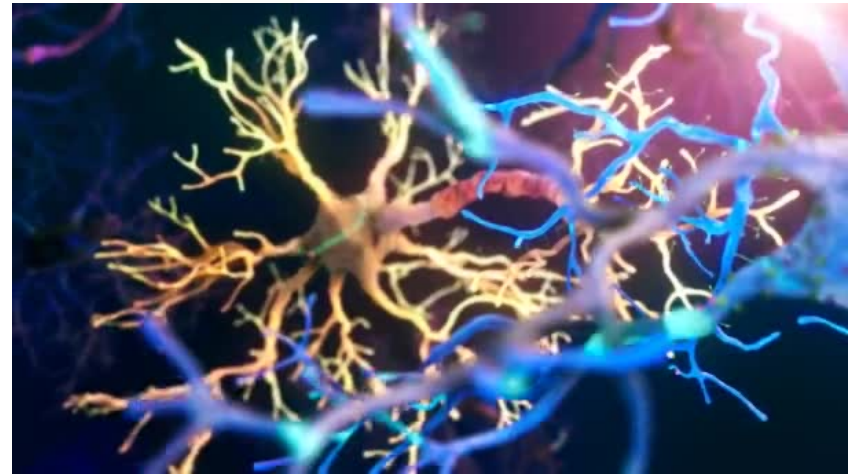
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How to Untrack Your School

Paul George (1992)

- Reassert the school's primary goal is learning.
- Second goal: To protect and provide for student's personal development as they move through school.
- Third: Schools are obligated to encourage group citizenship.





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Thank you

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