

# 2013 GATE Program Evaluation

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A Presentation to the  
District 33 Board of Education  
April, 2014

# Purpose of Evaluation

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To examine the growth of students in District 33's GATE program as compared to that of students with comparable propensity scores not included in the GATE program.

# Process and Data used in Evaluation

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- Rosters of students in the GATE program from 2010-2011 and 2011-2012
- Growth on ISAT and NWEA MAP math & reading assessments in grades 4-8
- In grade 3, only reading data were used
- Due to low numbers, used students across both years to increase reliability

# Methodology

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In order to facilitate conversation regarding student percentile ranks and identification for the GATE program, student propensity scores (50-150) were equated with local percentiles (0-99).

A control group of non-GATE students was formed.

# Control Group Formation

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- Average GATE student percentile = 87.82
- Average non-GATE percentile = 46.74
- The standard deviation for GATE students is 11.
- 1.5 standard deviation of 11 is about 17.
- Thus, control group is comprised of students with percentile of 70 or greater.

# Key Findings: Inclusion

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- Of 310 GATE students, 292 had math percentiles greater than 70.
- 18 students had percentiles less than 70.
- The GATE analysis includes students in grades 4-8 enrolled in replacement advanced math classes.
- Students enrolled in SIA or cluster classes are not designated as GATE participants.

# Key Findings: Math

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- GATE students achieved significantly higher growth than students in the control group.
- Aggregate results from ISAT and NWEA MAP for grades 4 - 8 show a difference of +0.28 in Value Added Growth (VAG) for GATE students.
- GATE = +0.18      Control = -0.10

# Key Findings: Reading

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- Using a variety of service models, GATE students achieved higher growth than students in the control group.
- Aggregate results from ISAT and NWEA MAP for grades 3 - 8 show a difference of +0.09 in Value Added Growth (VAG) for GATE students.
- GATE = +0.22      Control = +0.13



# Growth by Grades: Math

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- The difference in VAG in grade 4 and 5 tends to be higher than in grades 6 - 8.
- The difference between GATE and control group VAG is greater than +0.30 in four of the seven testing events. (ISAT grade 4, 5, 8 and NWEA MAP grade 7)

# Difference between Gifted and Control Math Value Added Growth

<b>Grade</b>	<b>Test</b>	<b>Gifted VAG</b>	<b>Control VAG</b>	<b>Difference in VAG</b>
4 <sup>th</sup>	ISAT	+0.26	-0.29	+0.55
5 <sup>th</sup>	ISAT	+0.10	-0.25	+0.35
6 <sup>th</sup>	ISAT	+0.21	+0.01	+0.20
7 <sup>th</sup>	ISAT	+0.09	-0.11	+0.20
	MAP	+0.29	-0.05	+0.34
8 <sup>th</sup>	ISAT	+0.37	-0.08	+0.45
	MAP	-0.22	+0.06	-0.28
<b>ALL</b>	<b>Both</b>	<b>+0.18</b>	<b>-0.10</b>	<b>+0.28</b>

# Growth by Grades: Reading

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- The difference in VAG for reading growth tends to be more consistent across grades.
- GATE students' growth exceeds +0.30 in ISAT grades 3, 6, and 8, and NWEA MAP grade 7.
- The difference in VAG is greater than +0.30 in two of twelve testing events.  
ISAT grade 3 and 8

# Difference between Gifted and Control Reading Value Added Growth

<b>Grade</b>	<b>Test</b>	<b>Gifted VAG</b>	<b>Control VAG</b>	<b>Difference in VAG</b>
3 <sup>rd</sup>	ISAT	+0.48	+0.07	+0.41
	AIMS	-0.27	+0.17	-0.44
4 <sup>th</sup>	ISAT	+0.22	+0.15	+0.07
	AIMS	+0.00	+0.10	-0.10
5 <sup>th</sup>	ISAT	+0.17	+0.09	+0.08
	AIMS	+0.23	-0.02	+0.25
6 <sup>th</sup>	ISAT	+0.31	+0.26	+0.05
	MAP	+0.25	+0.00	+0.25
7 <sup>th</sup>	ISAT	+0.24	+0.25	-0.01
	MAP	+0.52	+0.24	+0.28
8 <sup>th</sup>	ISAT	+0.71	+0.02	+0.69
	MAP	-0.13	+0.27	-0.40
<b>ALL</b>	<b>Both</b>	<b>+0.22</b>	<b>+0.13</b>	<b>+0.09</b>

# Characteristics of Effective Gifted Programs

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- Commitment to meet the needs of all learners
- Consistent definition of giftedness that fits the context, values, and beliefs of the district
- Agreement in the school and community regarding philosophy and implementation of the gifted program

# Characteristics of Effective Gifted Programs

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- Use of quantitative and qualitative assessments
- Continuum of services that recognizes academic giftedness and creative problem solving
- Consistent identification process

# What we learned:

## Phase 2

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- Value Added Growth in math was significant for students in GATE replacement advanced math classes, especially in early grades.
- Valued Added Growth in reading was consistent along grade level for students receiving various service models.
- Recommend greater consistency in documentation of students and type of service they received.

# What we learned:

## Phase 2

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- District will review identification process to include academic giftedness and creative problem solving.
- District will review elementary programming to meet the needs of high performing students.
- District will review middle school programming to meet the needs of high performing students.
- District will improve digital tagging procedures.