

REPLICATIONS, INC.

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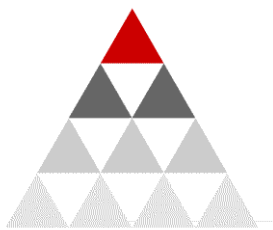
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REPLICATIONS INC. PROGRAM IMPACTS
AN ANALYSIS OF RESULTS, PREPARED BY ARETE CONSULTING

INTRODUCTION

Because schools are so ubiquitous and new schools open all the time, the complexity of starting a brand new one is often unappreciated. Schools are deceptively complex operations, and it typically takes several years for them to work out problems and find their rhythm. Strong performance from the outset should not be taken for granted, even for an organization like Replications Inc. which is in the business of starting new schools.

A fundamental question about any educational program is, what is its impact on educational achievement, what is its value-added? A definitive answer to these questions requires complex and expensive analysis, for example comparing individual students' performance at a later point in time to their benchmark scores before they entered a school or program. Arete Consulting conducted such an analysis several years ago for Replications Inc., and while the results were positive, that analysis was limited by the relatively small number of Replication Inc. schools and the short time horizon that they had been operating.

This analysis, which relies on the publicly posted, school wide data available from 2003 to the present, provides a snapshot in time of Replications Inc. school performance. The Replications Inc. data is compared to the other schools in the school district in which each school resides to get a sense of how the Replications Inc. schools are doing now, after several more years of operation. While these results are less definitive than an analysis based on individual student records, they give a pretty good picture of how the schools are doing.

The tables that follow present synopses of findings on demographic characteristics , and standardized test scores for all 15 Replications Inc. schools in New York City that have been in existence since 2004 or before¹. (Multi-year data is not available at this time for any school begun after that time.) As will be seen, the key demographic characteristics of the students enrolled in these schools mirror those of the school system overall. Reflecting the fact that the schools are located in the poorest inner city school districts of New York City,² Replications Inc. students are overwhelmingly of color (96%), and two-thirds are poor (based on free-lunch eligibility³), a slightly higher percentage than the school system overall.

The findings show that Replications Inc. schools consistently outperform the other schools in the districts in which they are located. Many of the Replications Inc. schools – but not all – have also shown improvements in the test score results over the period for which comparable data was available that equaled or exceeded the district overall average.

¹ Regents test scores for 3 additional high schools begun in September 2005 are also presented.

² We opted to use the old school districts (of which there are 32) as the unit of comparison rather than the newer Regions (of which there are 10) because they are more reflective of neighborhoods.

³ Free lunch eligibility is the strictest readily available measure of poverty. We note that large additional numbers of students are eligible for reduced price lunches.

Replications, Inc.
FREE LUNCH ELIGIBILITY and ETHNICITY

Students enrolled in Replications, Inc. schools are overwhelmingly minority (96%) and poor. 66% are free lunch recipients, slightly higher than the percentage of students citywide (65%).

School Name	% of enrollment eligible for free lunch 04-05
FDA II	55.4
FDA III	62.7
FDA IV	61.9
FDA V	70.7
Kappa II	77.7
Kappa III	60.2
Kappa IV	100
Kappa V	84.6
MH II	34.3
MH III	80.7
MH IV	65.2
FDA VI (HS)	53.2
FDA VII (HS)	64.5
Mott Hall HS	96.3
Bronx Int'l HS	82.3
Replications Weighted Average	66.1
New York City Schools	64.8

School Name	White			Black			Hispanic			Asian/other			District
	% of school	% of district	Difference in % points	% of school	% of district	Difference in % points	% of school	% of district	Difference in % points	% of school	% of district	Difference in % points	
FDA II	1.7	19.9	-18.2	82.4	37.5	44.9	14.9	36.5	-21.6	1	6.2	-5.2	3
FDA III	0.9	0.7	0.2	57.3	33.9	23.4	40.6	63.4	-22.8	1.3	2.1	-0.8	9
FDA IV	0.4	0.6	-0.2	90.2	86	4.2	7.5	11.3	-3.8	2	2.1	-0.1	16
FDA V	0	0.7	-0.7	49.3	31.1	18.2	46.7	66.1	-19.4	4	2.1	1.9	12
Kappa II	0.6	0.8	-0.2	79	64.9	14.1	19.1	33.2	-14.1	1.3	1.2	0.1	5
Kappa III	0	0.7	-0.7	45.8	31.1	14.7	47.5	66.1	-18.6	6.8	2.1	4.7	12
Kappa IV	0	0.8	-0.8	24.7	64.9	-40.2	70.4	33.2	37.2	4.9	1.2	3.7	5
Kappa V	1.3	0.6	0.7	88.5	81.4	7.1	9	16.9	-7.9	1.3	1.1	0.2	23
MH II	19.9	19.9	0	29.9	37.5	-7.6	43.6	36.5	7.1	6.5	6.2	0.3	3
MH III	0.9	0.7	0.2	37.3	33.9	3.4	61.3	63.4	-2.1	0.5	2.1	-1.6	9
MH IV	0	0.6	-0.6	85.5	81.4	4.1	14.5	16.9	-2.4	0	1.1	-1.1	23
FDA VI (HS)	1.1	10	-8.9	75.5	34.1	41.4	19.1	33.7	-14.6	4.3	22.2	-17.9	27
FDA VII (HS)	0	0.6	-0.6	76.1	81.4	-5.3	21.1	16.9	4.2	2.8	1.1	1.7	23
Mott Hall HS	3.6	0.8	2.8	33.6	64.9	-31.3	59.1	33.2	25.9	3.6	1.2	2.4	5
Bronx Int'l HS	3.5	0.7	2.8	25.7	33.9	-8.2	66	63.4	2.6	4.9	2.1	2.8	9
Total Weighted Avg	3.6			56.5			36.8			3.1			

Comparison to home district

No Difference: ± 4 pp.

White		Black		Hispanic		Asian/other	
Higher	0	Higher	9	Higher	4	Higher	1
Lower	2	Lower	5	Lower	7	Lower	2
No Difference	13	No Difference	1	No Difference	4	No Difference	12

Replications, Inc.
MIDDLE SCHOOL TEST SCORES

Glossary:

S ELA: State English Language and Arts Exam (grades 4 and 8)
 S&C ELA: State and City English Language and Arts Exam (grades 3, 5, 6 and 7 city, 4 and 8 state)
 S MATH: State Math Exam (grades 4 and 8)
 S&C MATH: State and City Math Exam (grades 3, 5, 6 and 7 for city, 4 and 8 for state)
 [Shaded Box]: Indicates comparable data is not available

FREDERICK DOUGLASS ACADEMY II

Grades: 6th to 12th	School #: 860	Opened: 9/2000
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Students in FDA II, the first Replications, Inc. School to open, have scored slightly better overall than their home-district peers.

% of students in levels 3 and 4				
		FDA II	District 3	Diff. in pp.
Tests 06	S ELA	52.2	52.1	0.1
	S MATH	60.8	59.9	0.9
Tests Scores in 05	S ELA	42.1		
	S MATH	50		
	S&C ELA	60.1	56	4.1
	S&C MATH	55.7	54.8	0.9
Tests Scores in 03	S ELA	73.5		
	S MATH	57.6		
	S&C ELA	50	44.9	5.1
	S&C MATH	38.5	44.1	-5.6

Changes over time (change in pp.)			
		FDA II	District 3
Change 05-06	S ELA	10.1	
	S MATH	10.8	
Change 03-06	S ELA	-21.3	
	S MATH	3.2	
Change 03-05	S&C ELA	10.1	11.1
	S&C MATH	17.2	10.7

FREDERICK DOUGLASS ACADEMY III

Grades 6th - 11th	School #: 517	Opened: 9/2001
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Test scores for FDA III, a school that benefited from the experience of developing FDA II, have substantially outpaced the home district. Student improvement on ELA tests was particularly strong between 2003 and 2005, and preliminary 2006 results (based on state tests) indicate that they have begun to excel in Math.

% of students in levels 3 and 4				
		FDA 3	District 9	Diff. in pp.
Tests 06	S ELA	57.2	35.3	21.9
	S MATH	55.2	37.6	17.6
Tests Scores in 05	S ELA	56.8		
	S MATH	43.2		
	S&C ELA	63.1	34	29.1
	S&C MATH	47.3	34.7	12.6
Tests 03	S&C ELA	45	24.1	20.9
	S&C MATH	41	28.1	12.9

Changes over time (change in pp.)			
		FDA 3	District 9
Change 05-06	S ELA	0.4	
	S MATH	12.0	
Change 03-05	S&C ELA	18.1	9.9
	S&C MATH	6.3	6.6

MOTT HALL II

Grades 6th - 8th	School #: 862	Opened: 9/2001
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Test scores at MH II not only are much better than home-district peers, but also have been showing greater multi-year improvement.

% of students in levels 3 and 4				
		MH 2	District 3	Diff. in pp.
Tests 06	S ELA	81.7	52.1	29.6
	S MATH	86.2	59.9	26.3
Tests Scores in 05	S ELA	64.9		
	S MATH	68.4		
	S&C ELA	81.3	56	25.3
	S&C MATH	79.6	54.8	24.8
Tests 03	S&C ELA	63.5	44.9	18.6
	S&C MATH	63	44.1	18.9

Changes over time (change in pp.)			
		MH 2	District 3
Change 05-06	S ELA	16.8	
	S MATH	17.8	
Change 03-05	S&C ELA	17.8	11.1
	S&C MATH	16.6	10.7

MOTT HALL III

Grades 6th - 8th	School #: 128	Opened: 9/2002
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Students in MH III consistently have performed at a very high level, especially in English Language Arts (ELA). Largely because of that (there being less upside potential), the changes in test scores have been less than the district average. Of some concern is the decline in math performance.

% of students in levels 3 and 4				
		MH 3	District 9	Diff. in pp.
Tests 06	S ELA	83.3	35.3	48.0
	S MATH	65.8	37.6	28.2
Tests Scores in 05	S ELA	74.6		
	S MATH	74.6		
	S&C ELA	78	34	44.0
	S&C MATH	63	34.7	28.3
Tests 03	S&C ELA	75	24.1	50.9
	S&C MATH	86	28.1	57.9

Changes over time (change in pp.)			
		MH 3	District 9
Change 05-06	S ELA	8.7	
	S MATH	-8.8	
Change 03-05	S&C ELA	3.0	9.9
	S&C MATH	-23.0	6.6

FREDERICK DOUGLASS ACADEMY IV

Grades 6th - 10th	School #: 393	Opened: 9/2002
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The ELA and math test passing rate at FDA IV has averaged 50% to 100% higher than the rest of the district, and for the most part, the pass rates have increased over time. Last year (2005-2006), however, scores on the NY State ELA test slipped.

% of students in levels 3 and 4				
		FDA 4	District 16	Diff. in pp.
Tests 06	S ELA	61.3	38.2	23.1
	S MATH	63.7	42.6	21.1
Tests Scores in 05	S ELA	68.9		
	S MATH	46.7		
	S&C ELA	70.8	38.3	32.5
	S&C MATH	55.4	40.4	15.0
Tests 03	S&C ELA	60	30.3	29.7
	S&C MATH	54	32.6	21.4

Changes over time (change in pp.)			
		FDA 4	District 16
Change 05-06	S ELA	-7.6	
	S MATH	17.0	
Change 03-05	S&C ELA	10.8	8.0
	S&C MATH	1.4	7.8

KAPPA II

Grades	5th - 8th	School #:	317	Opened:	9/2002
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Kappa II students dramatically outperform their home-district peers, especially in ELA, although their rate of improvement through 2005 was less than the district overall.

% of students in levels 3 and 4				
		K II	District 5	Diff. in pp.
Tests 06	S ELA	43.1	32.4	10.7
	S MATH	46.1	42.3	3.8
Tests Scores in 05	S ELA			
	S MATH			
	S&C ELA	68.2	36	32.2
	S&C MATH	47	38.3	8.7
Tests 03	S&C ELA	68	26.6	41.4
	S&C MATH	43	28.1	14.9

Changes over time (change in pp.)			
		K II	District 5
Change 05-06	S ELA		
	S MATH		
Change 03-05	S&C ELA	0.2	9.4
	S&C MATH	4.0	10.2

KAPPA III

Grades	6th - 8th	School #	316	Opened:	9/2003
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Students in Kappa III consistently have performed at a very high level. Largely because of that (there being less room for test score gains), the upside changes in test scores as compared to the district have been mixed.

% of students in levels 3 and 4				
		K III	District 12	Diff. in pp.
Tests 06	S ELA	73.5	34.2	39.3
	S MATH	85.9	45	40.9
Tests 05	S&C ELA	83.5	34.7	48.8
	S&C MATH	82.8	40	42.8
Tests 03	S&C ELA	74	27.2	46.8
	S&C MATH	83	30	53.0

Changes over time (change in pp.)			
		K III	District 12
Change 05-06	S ELA		
	S MATH		
Change 03-05	S&C ELA	9.5	7.5
	S&C MATH	-0.2	10.0

Test score results indicate that four Replications Inc. schools that opened in September 2004 are already performing at much higher levels than other schools in their home-districts. Comparable multi-year results on test scores are not yet available.

FREDERICK DOUGLASS ACADEMY V

Grades	6th - 8th	School #	273	Opened:	9/2004
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% of students in levels 3 and 4				
		FDA 5	District 12	Diff. in pp.
Tests 06	S ELA	48.3	34.2	14.1
	S MATH	59.4	45	14.4
Tests 05	S&C ELA	52.1	34.7	17.4
	S&C MATH	38.4	40	-1.6

Changes over time (change in pp.)

Note: Test score changes not yet available

KAPPA IV

Grades	6th - 8th	School #	302	Opened:	9/2004
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% of students in levels 3 and 4				
		K IV	District 5	Diff. in pp.
Tests 06	S ELA	55.9	32.4	23.5
	S MATH	74.6	42.3	32.3
Tests 05	S&C ELA	71.4	36	35.4
	S&C MATH	80.5	38.3	42.2

Changes over time (change in pp.)

Note: Test score changes not yet available

KAPPA V

Grade	6th - 8th	School #	518	Opened:	9/2004
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% of students in levels 3 and 4				
		K V	District 23	Diff. in pp.
Tests 06	S ELA	54.4	46.5	7.9
	S MATH	58.3	49.8	8.5
Tests 05	S&C ELA	60	45.4	14.6
	S&C MATH	58.7	44.2	14.5

Changes over time (change in pp.)

Note: Test score changes not yet available

MOTT HALL IV

Grades	6th - 8th	School #	522	Opened:	9/2004
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% of students in levels 3 and 4				
		MH 4	District 23	Diff. in pp.
Tests 06	S ELA	73.1	46.5	26.6
	S MATH	69.4	49.8	19.6
Tests 05	S&C ELA	87.9	45.4	42.5
	S&C MATH	59.7	44.2	15.5

Changes over time (change in pp.)

Note: Test score changes not yet available

Sources:

2006

NYC Department of Education Website (<http://schools.nyc.gov/daa/>)

2005, 2004 and 2003

2004-2005 Annual School Reports. NYC Department of Education.

2004 and 2003

Evaluation of Replications, Inc. 2003-2004, prepared by Arete Consulting.

**Replications, Inc.
REGENTS EXAMS**

The percentage of Replications, Inc. high school students who pass the Regents exams *far* surpasses both their home-district peers *and* the citywide results.

		Regents (% passing)			Difference in pp.	
		FD II	District 3	City	vs. District	vs. City
Frederick Douglass II 6th to 12th since 2000	ELA	90	72.9	61.4	17.1	28.6
	Math A	98	72.8	62.4	25.2	35.6
	Math B	86	78.6	57.4	7.4	28.6
	Foreign Language	100	99.3	96.3	0.7	3.7
	Living Environment	61	23.2	55.8	37.8	5.2
	Chemistry	61	12.1	55.3	48.9	5.7
	US History	78	80.7	61.1	-2.7	16.9
	Global History	100	61.4	50.8	38.6	49.2
Frederick Douglass III 6th to 11th since 2001		FD III	District 9	City	vs. District	vs. City
	Math A	80.3	37.3	62.4	43.0	17.9
	Foreign Language	100	98.2	96.3	1.8	3.7
	Living Environment	79.1	28.1	55.8	51.0	23.3
Frederick Douglass IV 6th to 10th since 2002		FD IV	District 16	City	vs. District	vs. City
	Math A	95	72.4	62.4	22.6	32.6
	Living Environment	70	59.9	55.8	10.1	14.2
Frederick Douglass VI 9th to 11th since 2004		FDA VI	District 27	City	vs. District	82.3
	ELA	83.87	53.8	61.4	30.1	22.5
	Math A	89.29	65.2	62.4	24.1	26.9
	Math B	80	73	57.4	7.0	22.6
	Foreign Language	100	95.6	96.3	4.4	3.7
	Living Environment	62.96	52	55.8	11.0	7.2
	Chemistry	100	40.5	55.3	59.5	44.7
Frederick Douglass VII 9th to 11th since 2004		FDA VII	District 23	City	vs. District	vs. City
	ELA	90.6	40.2	61.4	50.4	29.2
	Math A	54	22.6	62.4	31.4	-8.4
	Living Environment	86.5	39.1	55.8	47.4	30.7
Mott Hall High School 9th to 11th since 2004		MH HS	District 5	City	vs. District	vs. City
	Math A	84	65.5	62.4	18.5	21.6
	Foreign Language	90	97.1	96.3	-7.1	-6.3
	Living Environment	72	47.2	55.8	24.8	16.2
Bronx Center for Science & Math 9th to 10th since 2005		BC SC	District 9	City	vs. District	vs. City
	Math B	100	33.3	57.4	66.7	42.6
	Living Environment	94	28.1	55.8	65.9	38.2
Metropolitan HS 9th to 10th since 2005		M HS	District 12	City	vs. District	vs. City
	Math A	60.2	36.4	62.4	23.8	-2.2
	US History	38.1	47.8	61.1	-9.7	-23.0
Mott Hall Bronx High School 9th to 10th since 2005		MH HS B	District 9	City	vs. District	vs. City
	Math A	100	37.3	62.4	62.7	37.6
	US History	80	52.5	61.1	27.5	18.9