

ENGLEWOOD PUBLIC SCHOOLS

**NEW JERSEY ASSESSMENT OF SKILLS AND
KNOWLEDGE (NJ ASK 4 & 8) SCIENCE**

&

NEW JERSEY BIOLOGY COMPETENCY TEST

2015-2017

OCTOBER 19, 2017

**COMPARISON OF ENGLEWOOD'S SUBGROUP
NEW JERSEY ASSESSMENT OF SKILLS AND KNOWLEDGE
SCIENCE – GRADE 4 BY DEMOGRAPHIC STATEWIDE**

NJ ASK 4 STATE	Partially Proficient			Proficient			Advanced Proficient		
	2015	2016	2017	2015	2016	2017	2015	2016	2017
Total Students	9.4%	10.2%	14.4%	43.4%	40.8%	40.1%	47.2%	49.0%	45.4%
General Education	5.6%	6.3%	9.8%	41.9%	38.9%	39.1%	52.5%	54.8%	51.1%
Special Education	21.8%	22.4%	28.2%	49.6%	48.9%	44.8%	28.6%	28.7%	27.0%
Limited English Proficient	27.4%	30.0%	35.7%	54.8%	51.0%	47.4%	17.7%	19.0%	16.9%

**COMPARISON OF ENGLEWOOD'S SUBGROUP
NEW JERSEY ASSESSMENT OF SKILLS AND KNOWLEDGE
SCIENCE – GRADE 4 BY DEMOGRAPHIC DISTRICT**

NJ ASK 4 DISTRICT	Partially Proficient			Proficient			Advanced Proficient		
	2015	2016	2017	2015	2016	2017	2015	2016	2017
Total Students	14.7%	9.9%	20.9%	52.2%	50.0%	52.9%	32.8%	40.1%	26.2%
General Education	5.9%	8.7%	10.7%	53.3%	48.0%	57.7%	40.7%	43.3%	31.5%
Special Education	70.0%	9.1%	51.4%	30.0%	59.1%	40.9%	0.0%	31.8%	8.6%
Limited English Proficient	21.7%	0.0%	27.9%	65.2%	0.0%	55.8%	13.0%	0.0%	16.3%

**COMPARISON OF ENGLEWOOD'S SUBGROUP
NEW JERSEY ASSESSMENT OF SKILLS AND KNOWLEDGE
SCIENCE – GRADE 4 BY DEMOGRAPHIC DISTRICT**

NJ ASK 4 DISTRICT	Partially Proficient			Proficient			Advanced Proficient		
	2015	2016	2017	2015	2016	2017	2015	2016	2017
District-Wide Female	11.1%	10.2%	23.6%	60.5%	48.9%	48.3%	28.4%	40.9%	28.1%
Male	17.7%	6.7%	18.8%	45.8%	52.2%	56.4%	36.5%	41.1%	24.8%
Hispanic or Latino	13.0%	7.7%	21.1%	47.8%	54.9%	55.0%	39.1%	37.4%	24.0%
American Indian Or Alaska Native	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Asian	0.0%	0.0%	10.0%	54.5%	0.0%	30.0%	45.5%	0.0%	60.0%
Black or African-American	18.6%	14.7%	22.5%	58.6%	47.1%	54.9%	22.9%	38.2%	22.5%
Native Hawaiian or Other Pacific Islander	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
White	0.0%	0.0%	13.6%	0.0%	0.0%	50.0%	0.0%	0.0%	36.4%

**COMPARISON OF ENGLEWOOD'S SUBGROUP
NEW JERSEY ASSESSMENT OF SKILLS AND KNOWLEDGE
SCIENCE – GRADE 8 BY DEMOGRAPHIC STATEWIDE**

NJ ASK 8 STATE	Partially Proficient			Proficient			Advanced Proficient		
	2015	2016	2017	2015	2016	2017	2015	2016	2017
Total Students	23.0%	27.1%	25.3%	57.7%	46.6%	51.6%	19.3%	26.3%	23.1%
General Education	15.7%	18.9%	17.9%	61.6%	50.3%	55.2%	22.7%	30.8%	27.0%
Special Education	54.2%	61.9%	60.3%	41.3%	31.5%	34.8%	4.5%	6.6%	4.9%
Limited English Proficient	62.0%	69.2%	65.7%	35.7%	26.9%	30.0%	2.2%	3.9%	4.4%

**COMPARISON OF ENGLEWOOD'S SUBGROUP
NEW JERSEY ASSESSMENT OF SKILLS AND KNOWLEDGE
SCIENCE – GRADE 8 BY DEMOGRAPHIC DISTRICT**

NJ ASK 8 DISTRICT	Partially Proficient			Proficient			Advanced Proficient		
	2015	2016	2017	2015	2016	2017	2015	2016	2017
Total Students	40.7%	46.4%	51.0%	54.5%	46.4%	45.1%	4.8%	7.1%	11.9%
General Education	32.9%	41.4%	43.9%	61.5%	50.0%	51.4%	5.6%	8.6%	12.5%
Special Education	90.0%	82.8%	75.0%	10.0%	17.2%	25.0%	0.0%	0.0%	0.0%
Limited English Proficient	72.7%	42.9%	66.7%	27.3%	48.6%	30.6%	0.0%	8.6%	0.0%

**COMPARISON OF ENGLEWOOD'S SUBGROUP
NEW JERSEY ASSESSMENT OF SKILLS AND KNOWLEDGE
SCIENCE – GRADE 8 BY DEMOGRAPHIC DISTRICT**

NJ ASK 8 DISTRICT	Partially Proficient			Proficient			Advanced Proficient		
	2015	2016	2017	2015	2016	2017	2015	2016	2017
District-Wide Female	33.3%	53.8%	59.6%	64.5%	40.4%	36.2%	2.2%	5.8%	11.7%
Male	50.0%	39.0%	43.8%	43.5%	53.3%	52.7%	6.5%	7.6%	12.2%
Hispanic or Latino	43.5%	46.5%	56.0%	51.8%	44.4%	40.7%	4.7%	9.1%	5.9%
American Indian Or Alaska Native	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Asian	0.0%	0.0%	42.9%	0.0%	0.0%	57.1%	0.0%	0.0%	35.6%
Black or African-American	44.2%	46.1%	50.0%	52.3%	50.0%	46.9%	3.5%	3.9%	2.4%
Native Hawaiian or Other Pacific Islander	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	66.7%
White	0.0%	0.0%	41.4%	0.0%	0.0%	51.7%	0.0%	0.0%	6.9%

COMPARISON OF **ENGLEWOOD'S** SUBGROUP
NEW JERSEY BIOLOGY COMPETENCY TEST BY DEMOGRAPHIC
STATEWIDE

NJBC STATE	Partially Proficient			Proficient			Advanced Proficient		
	2015	2016	2017	2015	2016	2017	2015	2016	2017
Total Students	42.2%	43.3%	41.9%	44.8%	40.7%	42.2%	13.0%	16.0%	15.9%
General Education	35.1%	35.2%	33.5%	49.7%	45.8%	47.6%	15.2%	19.1%	18.9%
Special Education	76.5%	77.9%	76.8%	21.5%	19.7%	20.5%	2.0%	2.4%	2.7%
Limited English Proficient	82.4%	83.4%	85.2%	15.8%	14.2%	13.4%	1.7%	2.4%	1.5%

**COMPARISON OF ENGLEWOOD'S SUBGROUP
NEW JERSEY BIOLOGY COMPETENCY TEST BY DEMOGRAPHIC
DISTRICT**

NJBC DISTRICT	Partially Proficient			Proficient			Advanced Proficient		
	2015	2016	2017	2015	2016	2017	2015	2016	2017
Total Students	49.7%	56.9%	50.5%	39.5%	34.7%	37.6%	10.9%	8.4%	3.9%
General Education	43.7%	53.5%	48.0%	44.0%	37.1%	39.4%	12.4%	9.4%	4.7%
Special Education	0.0%	0.0%	87.5%	0.0%	0.0%	12.5%	0.0%	0.0%	0.0%
Limited English Proficient	0.0%	0.0%	100.0%	0.0%	0.0%	0.0%	0.0%	0.0%	2.8%

**COMPARISON OF ENGLEWOOD'S SUBGROUP
NEW JERSEY BIOLOGY COMPETENCY TEST BY DEMOGRAPHIC
DISTRICT**

NJBCT	Partially Proficient			Proficient			Advanced Proficient		
	2015	2016	2017	2015	2016	2017	2015	2016	2017
District-Wide Female	43.1%	51.5%	50.3%	45.8%	39.2%	37.9%	11.1%	9.2%	4.3%
Male	55.7%	61.3%	50.0%	33.6%	31.0%	37.8%	10.7%	7.7%	3.6%
Hispanic or Latino	60.5%	71.6%	66.3%	36.8%	28.4%	27.7%	2.6%	0.0%	3.3%
American Indian Or Alaska Native	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Asian	4.8%	15.2%	5.1%	54.8%	60.9%	59.3%	40.5%	23.9%	0.0%
Black or African-American	64.5%	75.6%	62.2%	31.8%	20.9%	35.4%	3.7%	3.5%	3.1%
Native Hawaiian or Other Pacific Islander	0.0%	0.0%	0.0%	0.0%	0.0%	33.3%	0.0%	0.0%	20.0%
White	19.2%	14.8%	30.0%	53.8%	59.3%	50.0%	26.9%	25.9%	36.4%

ANALYSIS/FINDINGS

- As students progress to the higher grades (Grades 4, 8 and 9), the achievement gap becomes wider.

Why: Higher Language Arts and Math levels are required. Science and Critical Thinking required.

- Lack of Science curriculum, text books and science kits.
- Limited professional development in Science for teachers.
- Instructional practice of scaffold learning, teacher as facilitator and inquiry-based learning limited.
- Inconsistent standards (Expectations and Benchmarks).

SOLUTIONS

- **New Science Curriculum K-12 (New Jersey Student Learning Standards)**
- **New K-8 Science Dimensions Series by Houghton Mifflin Harcourt (Workbooks, Online Learning and Science Kits).**
- **200 Sessions of Houghton Mifflin Harcourt professional development for teachers in Science, Math, Social Studies, and Language Arts to build teacher capacity.**
- **Four Instructional Coaches: Math, Science, Language Arts and Social Studies.**
- **Reading across the curriculum to improve student performance with informational text.**
- **School initiatives to improve student learning.**
- **Preparing for Spring 2018 NEW JERSEY NGSS ASSESSMENT for Grade 5.**